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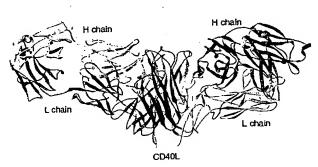
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(54) Title: CO-CRYSTAL STRUCTURE OF MONOCLONAL ANTIBODY 5C8 AND CD154, AND USE THEREOF IN DRUG DESIGN



(57) Abstract: The present invention relates to compositions and crystals of CD154 (CD40L) in complex with an anti-CD154 antibody. In addition, this invention relates to the high resolution structure of a CD154/anti-CD154 antibody complex as obtained by X-ray crystallography. Specifically, this structure provides binding sites defined by the structure coordinates determined herein. This minvention also relates to a computer (machine) comprising a machine-readable data storage medium comprising a data storage material encoded with machine-readable data comprising the structure coordinates provided by this invention. The computer has instructions to process said machine-readable data into a three-dimensional representation of a molecular complex of CD154/anti-CD154 antibody based on the structure coordinates provided by this invention. This invention also relates to methods using the structure coordinates of an CD154/anti-CD154 antibody complex to solve the structure of similar or homologous molecular complexes, as well as methods using the structure coordinates of an CD154/anti-CD154 antibody complexto design chemical entities or compounds, including agonists or antagonists of CD154, that specifically bind CD154 and function as CD40:CD154 binding interruptors, as well as to design variants of monoclonal antibody 5c8, or humanized monoclonal antibody 5c8, or antigen binding fragements thereof, having improved properties (such as increased or decreased binding affinity for CD154). This invention also relates to compositions comprising said chemical entities, compounds or variants of monoclonal antibody 5c8 or humanized monoclonal antibody 5c8. The invention further relates to uses of said chemical entities, compounds or variants of monoclonal antibody 5c8 or humanized monoclonal antibody 5c8 to treat a subject having one or more conditions associated with inappropriate or abnormal CD154 induced

activation.



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CO-CRYSTAL STRUCTURE OF MONOCLONAL ANTIBODY 5C8 AND CD154, AND USE THEREOF IN DRUG DESIGN

TECHNICAL FIELD OF THE INVENTION

The present invention relates to the field of crystallography and computer-assisted analysis of proteins and polypeptides. The present invention further relates to the field of computational drug design.

BACKGROUND OF THE INVENTION

10 Data establishing that T cell activation requires both T cell receptor ("TCR") mediated signals and simultaneously delivered costimulatory signals have accumulated over the past twenty years. For example, antibody production by B lymphocytes in response to 15 protein antigens requires a specific, costimulatory interaction with T lymphocytes. This B cell/T cell interaction is mediated through several receptor-ligand binding events in addition to engagement of the TCR. See, e.g., Noelle et al. Immunology Today 13: 431-433 20 (1992). See also Hollenbaugh et al. EMBO J. 11: 4313-4321 (1992). These additional binding events include the binding of CD40 on B cells to CD154 (CD40L, and also known as gp39, T-BAM, 5c8 antigen, CD40CR and TRAP) on T cells. Human CD40 is a 50 kilodalton cell 25 surface protein expressed on mature B cells, as well as

macrophages, dendritic cells, fibroblasts and activated endothelial cells. CD40 belongs to a class of receptors involved in cell signaling and in programmed cell death, including Fas/CD95 and the tumor necrosis factor (TNF) alpha receptor. Human CD154, a 32 kilodalton type II membrane glycoprotein having homology to TNF alpha, is a member of the TNF family of receptors and is transiently expressed primarily on activated T cells. CD40:CD154 binding has been shown 10 to be required for T cell-dependent antibody responses. In particular, CD40:CD154 binding provides antiapoptotic and/or lymphokine stimulatory signals. e.g., Karpusas et al. <u>Structure</u> 3, 1031-1039 (1995) and Karpusas et al. <u>Structure</u> 3, 1446 (1995), United States patent application 09/180,209 and PCT patent 15 application WO 97/00895, the disclosures of which are hereby incorporated by reference.

The importance of CD40:CD154 binding in promoting T cell dependent biological responses is 20 underscored by the development of X-linked hyper-IgM syndrome (X-HIGM) in humans lacking functional CD154. These individuals have normal or high IgM levels, but fail to produce IgG, IgA or IgE antibodies. Affected individuals suffer from recurrent, sometimes severe, bacterial infection (most commonly <u>Streptococcus</u> 25 pneumoniae, Pneumocystis carinii and Hemophilus influenzae) and certain unusual parasitic infections, as well as an increased incidence of lymphomas and abdominal cancers. These clinical manifestations of disease can be managed through intravenous 30 immunoglobulin replacement therapy.

The effects of X-HIGM are simulated in animals rendered nullizygous for the gene encoding

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CD154 (knockout animals). Studies with nullizygotes have confirmed that, while B cells can produce IqM in the absence of CD40:CD154 binding, they are unable to undergo isotype switching, or to survive normally and 5 undergo affinity maturation. In the absence of a functional CD40:CD154 interaction, spleen and lymph node germinal centers do not develop properly, and the development of memory B cells is impaired. defects contribute to a severe reduction in or absence of a secondary (mature) antibody response.

10

Individuals with X-HIGM and CD154 nullizygotes also have defects in cellular immunity. These defects are manifested by an increased incidence of Pneumocystis carinii, Histoplasma capsulatum, Cryptococcus neoformans infection, as well as chronic 15 Giardia lambli infection. Murine nullizygotes are deficient in their ability to fight Leishmania infection. Many of these cell-mediated defects are reversible by administration of IL-12 or IFN-gamma. 20 These data substantiate the view that CD40:CD154 binding promotes the development of Type I T-helper cell responses. Further support is derived from the observation that macrophage activation is defective in CD154-deficient settings, and that administration of anti-CD154 antibodies to mice diminished their ability 25 to clear <u>Pneumocystis</u> infection. Blockade of CD40:CD154 binding appears to reduce the ability of macrophages to produce nitric oxide, which mediates many of the macrophages' pro-inflammatory activities. 30 It should be noted, however, that mammals (including

humans) who lack functional CD154 do not develop

significant incidences of viral infection.

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A number of preclinical studies, including those described in co-pending, commonly assigned PCT patent applications published as W098/30241, W098/30240, W098/52606, W098/58669 and W099/45958, 5 describe the promise of agents capable of interrupting CD40:CD154 binding as immunomodulating agents. murine systems, antibodies to CD154 block primary and secondary immune responses to exogenous antigens, both in vitro and in vivo. Antibodies to CD154 cause a reduction in germinal centers in mice and monkeys, 10 consistent with data on CD154 immunodeficiency. Administration of three doses of anti-CD154 antibody to lupus-prone mice, age three months, substantially reduced titers against double-stranded DNA and 15 nucleosomes, delayed the development of severe nephritis, and reduced mortality. Moreover, administration of anti-CD154 antibodies to mice age five to seven months with severe nephritis was shown to stabilize or even reverse renal disease. Anti-CD154 antibodies given concomitantly with small resting 20 allogeneic lymphocytes permitted unlimited survival of mouse pancreatic islet allografts. In other animal models, interference with CD40:CD154 binding has been demonstrated to reduce symptoms of autoimmune disease (e.g., multiple sclerosis, rheumatoid arthritis, 25 inflammatory bowel disease), graft rejection (e.g., cardiac allograft, graft-versus-host disease), and mercuric chloride induced glomerulonephritis, which is mediated by both humoral and cellular mechanisms.

30 Such studies with anti-CD154 antibodies demonstrate the role of CD154 as a critical target for modulating immune responses.

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Currently, the most effective of the available CD40:CD154 binding interruptors are anti-CD154 antibodies. Antibodies, however, may not, in all cases, be the most effective CD40:CD154 binding interruptors for use as a human therapeutic agent. Further development of novel agents that are more effective in interrupting CD40:CD154 interactions and serve as improved human therapeutic agents is hampered by the lack of structural information of CD154 and an agent known to bind specifically to CD154. That information is provided for the first time by the present invention.

SUMMARY OF THE INVENTION

Applicants have solved the above-identified problem by providing compositions, which can be crystallizable, and crystals of CD154(CD40L) in complex with an antibody that specifically binds CD154 (an anti-CD154 antibody) and methods for using such compositions and crystals.

This invention also provides the structure coordinates of CD154 in complex with an antibody that specifically binds CD154.

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This invention also provides methods for determining at least a portion of the three-dimensional structures of molecular complexes which contain at least some structurally similar features to a CD154/anti-CD154 antibody complex.

This invention also provides methods for designing chemical entities, compounds, such as agonists and antagonists of CD154, and variants of the 5c8 monoclonal antibody, or an antigen binding fragment thereof, that specifically bind CD154 and, accordingly,

act as CD40:CD154 binding interruptors. This invention further relates to compositions comprising the chemical entities, the compounds, such as agonists and antagonists of CD154, and the variants of the 5c8monoclonal antibody, or antigen binding fragments thereof, that specifically bind CD154 and that are rationally designed by means of the structure coordinates of a CD154/anti-CD154 antibody complex. The invention further relates to use of the aboveidentified chemical entities, compounds, such as 10 agonists and antagonists of CD154, and variants of the 5c8 monoclonal antibody, or antigen binding fragments thereof, to treat conditions associated with inappropriate or abnormal CD154 activation in a 15 subject.

This invention also provides a computer, which comprises a storage medium comprising a data storage material, for producing three-dimensional representations of molecular complexes comprising 20 binding sites defined by structure coordinates of CD154 and an anti-CD154 antibody and methods for using these three-dimensional representations to design: 1) chemical entities and compounds that associate with CD154 or anti-CD154 antibody, 2) compounds, such as potential agonists or antagonists of CD154; 25 specifically, or 3) variants of anti-CD154 antibodies (such as variants of 5c8 mAb) with improved properties, such as those that bind with higher or lower affinity to CD154 as compared to the non-variant, parent anti-30 CD154 antibody (such as 5c8 mAb), by using computational means to perform a fitting operation between chemical entities, compounds, such as agonists and antagonists of CD154, and variants of the 5c8

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monoclonal antibody, or an antigen binding fragment thereof, and a binding site. This invention also provides the chemical entities, the compounds, such as agonists and antagonists of CD154, and the variants of the 5c8 monoclonal antibody, or an antigen binding fragment thereof and compositions comprising them.

The foregoing and other objects, features and advantages of the present invention, as well as the invention itself, will be more fully understood from the following description of preferred embodiments.

BRIEF DESCRIPTION OF THE DRAWINGS

The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the Patent Office upon request and payment of the necessary fee.

Figure 1 depicts a ribbon diagram of a complex comprising a trimer of the extracellular domain of

human CD154 and three Fab fragments of humanized
20 monoclonal antibody 5c8 ("hu5c8 mAb"). Each Fab
fragment of humanized 5c8 mAb binds to a monomer of
CD154. This figure provides a view along the 3-fold
axis. The three CD154 monomers, located in the center
of the Figure, are colored yellow, green and dark blue.

The three Fab heavy chains ("H chains"), located in the foreground relative to the Fab light chain, are colored grey, dark grey and magenta and the three Fab light chains ("L chains"), located in the background relative to the Fab heavy chain, are colored dark blue, orange and turquoise.

Figure 2 depicts a ribbon diagram of a complex comprising a trimer of the extracellular domain of

human CD154 and three Fab fragments of humanized 5c8Each Fab fragment of humanized 5c8 mAb binds to a monomer of CD154. This figure provides a view that is perpendicular to the 3-fold axis. The 3-fold axis runs 5 from top to bottom of the diagram. The three CD154 $\,$ monomers, located in the center of the Figure, are colored yellow, green and dark blue. The three Fab heavy chains are colored grey, dark grey and magenta; and the three Fab light chains are colored dark blue, orange and turquoise. Only two of the three Fab 10

fragments of hu5c8 mAb are displayed; the third Fab fragment has been omitted for clarity.

Figure 3 depicts a stereo view of a representative portion of the final 2Fo-Fc electron density map. The

- map is contoured at 1.2 σ and superimposed on corresponding atoms from the final refined model.
 - Figure 4 lists the atomic structure coordinates for the extracellular domain of human CD154 in complex with the Fab fragment of humanized 5c8 mAb, as derived by X-ray
- 20 diffraction from crystals of that complex in protein data bank (PDB) format.
 - Figure 5 shows a diagram of a system used to carry out the instructions encoded by the storage media of Figures 6 and 7.
- Figure 6 shows a cross-section of a magnetic storage 25 medium.
 - Figure 7 shows a cross section of an optically-readable data storage medium.

Figure 8 shows the amino acid sequence of human CD154 (the fragment in brackets was crystallized) and shows 30 the amino acid sequence of humanized 5c8 mAb heavy and light chains (the fragments in brackets were visible in the crystal structure; whereas the actual molecule

crystallized could be a few residues longer (heavy chain) or was presumably the whole sequence (light chain)). Residues of the CDR loops of the hu5c8 mAb heavy and light chains are underscored.

Figure 9 lists the atomic structure coordinates for the uncomplexed Fab fragment of humanized 5c8 mAb, as derived by X-ray diffraction from crystals of that Fab fragment in protein data bank (PDB) format.

Figure 10 shows a view of the CD154-5c8 mAb interface.

- 10 The CD154 backbone is represented as a yellow ribbon and the H and L chains of 5c8 mAb are represented as blue and red ribbons. Side chains of residues involved in CD154-5c8 mAb contacts are shown. The thin lines indicate H-bonds.
- 15 **Figure 11** shows mutated residues and the antigenic epitope on CD154 for 5c8 mAb.
 - (A) The solvent accessible surface shown with a dotted, darker surface represents the antigenic epitope. The representation of the antigenic epitope is on the
- monomer on the right side of the Figure. The two monomers of CD154 shown are in space-filling representation and are colored blue (on the left side of the Figure) and grey (on the right side of the Figure) respectively.
- 25 (B) Space-filling representation of CD154 indicating the position of mutated residues. The effects of the mutations are color-coded according to the data for 5c8 mAb binding in Table 2 in Example 2: green (+), yellow (+/-), red (-).

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DETAILED DESCRIPTION OF THE INVENTION

The following discussion illustrates and exemplifies the variety of contexts and circumstances in which the invention can be practiced, as well as providing specific embodiments of the invention.

Throughout this specification and claims, the word "comprise," or variations such as "comprises" or "comprising," will be understood to imply the inclusion of a stated integer or group of integers but not the exclusion of any other integer or group of integers.

AMINO ACID ABBREVIATIONS

10

A = Ala = Alanine

V = Val = Valine

L = Leucine

15 I = Ile = Isoleucine

P = Pro = Proline

F = Phe = Phenylalanine

W = Trp = Tryptophan

M = Met = Methionine

20 G = Gly = Glycine

S = Ser = Serine

T = Thr = Threonine

C = Cys = Cysteine

Y = Tyr = Tyrosine

25 N = Asn = Asparagine

Q = Gln = Glutamine

D = Asp = Aspartic Acid

E = Glu = Glutamic Acid

K = Lys = Lysine

30 R = Arg = Arginine

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H = His = Histidine

Applicants have solved the three-dimensional structure of a CD154/anti-CD154 antibody complex using high resolution X-ray crystallography. Importantly, this has provided, for the first time, the information about the shape and structure of both the binding site of CD154 (specifically, human CD154) for an anti-CD154 antibody (specifically, monoclonal antibody 5c8) and the binding site of an anti-CD154 antibody

10 (specifically, monoclonal antibody 5c8) for CD154.

Compositions and Crystals

According to a preferred embodiment, the compositions of this invention are crystallizable.

Those compositions comprise a CD154 polypeptide in complex with an antibody that specifically binds CD154 (an anti-CD154 antibody), or an antigen binding fragment thereof.

The CD154 polypeptide portion of the complex 20 is any CD154 polypeptide capable of specifically binding to an anti-CD154 antibody, preferably an antibody that is capable of blocking the interaction between CD40 and CD154. In a preferred embodiment, the CD154 polypeptide comprises the extracellular domain, 25 or a portion thereof, of CD154. In another preferred embodiment, the CD154 polypeptide comprises a polypeptide consisting of CD154 amino acid residues 116 to 261. See Figure 8. In a preferred embodiment, the CD154 is human CD154. In another preferred embodiment, 30 the crystallizable composition comprises a trimer of CD154 polypeptides and three anti-CD154 antibody

molecules, or antigen binding fragments thereof. A

CD154 polypeptide could be a fusion protein comprising CD154, or a portion thereof, and one or more other proteins or polypeptides. The fusion protein could also comprise CD154, or a portion thereof, and one or more epitope tags, such as a MYC tag.

The anti-CD154 antibody portion of the complex is an antibody, or an antigen binding fragment thereof, capable of specifically binding the epitope on CD154 that is specifically bound by an antibody,

- preferably an antibody capable of blocking the interaction between CD40 and CD154. Preferably, the anti-CD154 antibody is a monoclonal antibody. Examples include monoclonal antibody ("mAb") 5c8 (produced by the hybridoma having ATCC Accession No. HB 10916),
- humanized 5c8 mAb, Fab', (Fab)₂ and Fab fragments of 5c8 mAb or humanized 5c8 mAb. In a more preferred embodiment, the antibody, or an antigen binding fragment thereof, binds specifically to human CD154. Examples include 5c8 mAb, humanized 5c8 mAb, and Fab',
- 20 (Fab)₂ and Fab fragments of 5c8 mAb or humanized 5c8 mAb. An anti-CD154 antibody could be a fusion protein comprising an anti-CD154 antibody, or an antigen binding portion thereof, and one or more other proteins or polypeptides. The fusion protein could also
- comprise an anti-CD154 antibody, or an antigen binding portion thereof, and one or more epitope tags, such as a MYC tag.

In a preferred embodiment, the anti-CD154 antibody is a monoclonal antibody which specifically binds the 5c8 antigen, which is specifically bound by monoclonal antibody 5c8 (produced by the hybridoma having ATCC Accession No. HB 10916). 5c8 antigen is human CD154. A human CD154 DNA sequence and a human

CD154 amino acid sequence were disclosed in Hollenbaugh et al., EMBO J., 11: 4313-4321 (1992).

An antibody that is capable of blocking the interaction between CD40 and CD154 is one that blocks 5 the interaction of CD40, for example, cell surface CD40 (e.g., on B cells, dendritic cells, endothelial cells and other antigen presenting cells) with CD154, for example, CD154 expressed on the surface of activated T cells. CD40:CD154 binding interruptor compounds, such 10 as anti-CD154 compounds, that are specifically contemplated include polyclonal antibodies and monoclonal antibodies, as well as antibody derivatives such as chimeric molecules, humanized molecules, molecules with altered (e.g., reduced) effector 15 functions, bispecific molecules, and conjugates of antibodies. In a preferred embodiment, the antibody is 5c8 mAb (produced by the hybridoma having ATCC Accession Number HB 10916, deposited on November 14, 1991), as described in United States patent 5,474,771, 20 the disclosure of which is hereby incorporated by reference. In a highly preferred embodiment, the antibody is a humanized 5c8 mAb. Other known antibodies against CD154 include, for example, antibodies ImxM90, ImxM91 and ImxM92 (described in 25 United States patent 5,961,974). Numerous additional anti-CD154 antibodies have been produced and characterized (see, e.g., PCT patent application WO96/23071 of Bristol-Myers Squibb, the specification of which is hereby incorporated by reference). 30 selection of an appropriate monoclonal antibody will depend on the animal species from which CD154 is derived and the species specificity of the anti-CD154 monoclonal antibody (for example, 5c8 mAb, produced by

the hybridoma having ATCC Accession No. HB 10916 and raised against human CD154, specifically binds to human and some non-human primate CD154 molecules but not to mouse CD154). When the CD154 is mouse CD154 (known as gp39), an antibody that binds mouse CD154 should be used. An example of such an antibody is MR1 (see Noelle et al. (1992), Proc. Natl. Acad. Sci. USA 89: 6550).

The invention also includes anti-CD154

10 molecules of other types, such as complete Fab
fragments, F(ab')₂ compounds, V_H regions, F_V regions and
single chain antibodies (see, e.g., PCT patent
application WO96/23071) polypeptides.

Various forms of antibodies may also be produced using standard recombinant DNA techniques (Winter and Milstein, Nature 349: 293-99, 1991). For example, "chimeric" antibodies may be constructed, in which the antigen binding domain from a non-human animal antibody is linked to a human constant domain 20 (an antibody derived initially from a nonhuman mammal in which recombinant DNA technology has been used to replace all or part of the hinge and constant regions of the heavy chain and/or the constant region of the light chain, with corresponding regions from a human 25 immunoglobulin light chain or heavy chain) (see, e.g., Cabilly et al., United States patent 4,816,567; Morrison et al., Proc. Natl. Acad. Sci. 81: 6851-55, 1984).

In addition, recombinant "humanized"

30 antibodies may be synthesized. Humanized antibodies are antibodies initially derived from a nonhuman mammal in which recombinant DNA technology has been used to substitute some or all of the amino acids not required

for antigen binding with amino acids from corresponding regions of a human immunoglobulin light or heavy chain. Such antibodies are chimeras comprising mostly human immunoglobulin sequences into which the regions 5 responsible for specific antigen binding have been inserted (see, e.g., PCT patent applications W090/07861 and WO94/04679, the disclosures of which are incorporated hereby by reference). Animals are immunized with the desired antigen, the corresponding 10 antibodies are isolated and the portions of the variable region sequences responsible for specific antigen binding are removed. The animal-derived antigen binding regions are then cloned into the appropriate position of the human antibody genes from 15 which the antigen binding regions have been deleted. Humanized antibodies minimize the use of heterologous (inter-species) sequences in antibodies targeted for human therapies, and are less likely to elicit unwanted immune responses. Primatized antibodies can be 20 produced similarly using primate (e.g., rhesus, baboon and chimpanzee) antibody genes.

Another embodiment of the invention includes the use of human antibodies, which can be produced in nonhuman animals, such as transgenic animals harboring one or more human immunoglobulin transgenes. Such animals may be used as a source for splenocytes for producing hybridomas, as described in United States patent 5,569,825.

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Antibody fragments and univalent antibodies are also contemplated by this invention. Univalent antibodies comprise a heavy chain/light chain dimer bound to the Fc (or stem) region of a second heavy chain. "Fab region" refers to those portions of the

chains which are roughly equivalent, or analogous, to
the sequences which comprise the Y branch portions of
the heavy chain and to the light chain in its entirety,
and which collectively (in aggregates) have been shown
to exhibit antibody activity. A Fab protein includes
aggregates of one heavy and one light chain (commonly
known as Fab'), as well as tetramers which correspond
to the two branch segments of the antibody Y, (commonly
known as F(ab)₂), whether any of the above are
covalently or non-covalently aggregated, so long as the
aggregation is capable of selectively reacting with a
particular antigen or antigen family.

In addition, standard recombinant DNA techniques can be used to alter the binding affinities 15 of recombinant antibodies with their antigens by altering amino acid residues in the vicinity of the antigen binding sites. The antigen binding affinity of a humanized antibody may be increased by mutagenesis based on molecular modeling (Queen et al., Proc. Natl. 20 Acad. Sci. 86:10029-33, 1989; PCT patent application WO94/04679, which are hereby incorporated by reference). This may also be done utilizing phage display technology (see, e.g., Winter et al., Ann. Rev. <u>Immunol.</u> 12:433-455, 1994; and Schier et al., <u>J. Mol.</u> Biol. 255:28-43, 1996, which are hereby incorporated by 25 reference).

Crystal Structures and Methods Using the Structure Coordinates That Define the Three-dimensional Structure of a CD154/anti-CD154 Antibody Complex

The crystallizable compositions provided by this invention are amenable to X-ray crystallography. Therefore, this invention also encompasses crystals of the crystallizable compositions. This invention also

provides the three dimensional structure as obtained by X-ray crystallography of a CD154/anti-CD154 antibody complex at high resolution, such as at 3.1Å resolution.

See Example 1. In a preferred embodiment, the CD154 polypeptide is the extracellular domain of human CD154 (for example, amino acids 116 to 261) and the anti-CD154 antibody, or an antigen binding fragment thereof, is the Fab fragment of humanized 5c8 mAb.

The three dimensional structures of other crystallizable compositions of this invention may also be determined by X-ray crystallography using X-ray crystallographic techniques routine in the art.

X-ray crystallography is a collection of techniques which allow the determination of the

15 structure of a molecular entity. The techniques include crystallization of the entity, collection and processing of X-ray diffraction intensities, determination of phases (by, e.g., multiple isomorphous replacement, molecular replacement or difference

20 Fourier techniques) and model building and refinement.

The three-dimensional structure of the extracellular domain of a CD154/Fab fragment of humanized 5c8 mAb complex is defined by a set of structure coordinates as set forth in Figure 4. The 25 term "structure coordinates" refers to Cartesian atomic coordinates derived from mathematical equations related to the patterns obtained on diffraction of a monochromatic beam of X-rays by the atoms (scattering centers) of an extracellular domain of a CD154/Fab fragment of humanized 5c8 mAb complex in crystal form. The diffraction data are used to calculate an electron density map of the repeating unit of the crystal. The electron density maps are then used to establish the

individual atoms of the extracellular domain of a CD154/Fab fragment of humanized 5c8 mAb complex.

As shown in **Example 1**, the epitope (also referred to as the antigenic epitope herein) on CD154 for 5c8 mAb comprises CD154 amino acids Glu129, Ala130, Ser132, Glu142, Lys143, Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248, His249 and Gly250.

A binding site defined by structure coordinates of CD154 amino acids Glu129, Ala130,

Ser132, Glu142, Lys143, Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248, His249 and Gly250 according to Figure 4, can bind to, inter alia, 5c8 mAb, and antigen binding fragments thereof, as well as hu5c8 mAb, and antigen binding fragments thereof.

15 One embodiment of the present invention provides a molecular complex comprising a first binding site defined by structure coordinates of CD154 amino acids Glu129, Ala130, Ser132, Glu142, Lys143, Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248, His249 20 and Gly250 according to Figure 4; or a homologue of said molecular complex, wherein said homologue comprises a second binding site that has a root mean square deviation from the backbone atoms of said amino acids between 0.00Å and 1.50Å, preferably between 0.00Å 25 and 1.00Å, more preferably between 0.00Å and 0.50Å. The first binding site was calculated with the program CONTACT (Navaja, J. (1994) Acta Crystallogr. A 50, 157-163) from the CCP4 program package (Collaborative Computational project No. 4. The CCP4 Suite: programs 30 for protein crystallography Acta Cryst. D 50, 760-763). The program found all residues whose distance from contact residues of the other molecule of the complex was between 1 and 3.6 Angstroms. The first and/or the

second binding site may be a binding site for 5c8 mAb, or an antigen binding fragment thereof, or hu5c8 mAb, or an antigen binding fragment thereof.

Another embodiment of the present invention provides a molecular complex comprising a first binding site, defined by structure coordinates of CD154 amino acids Glu129, Ala130, Ser132, Glu142, Lys143, Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248, His249 and Gly250 according to Figure 4, that associates with 10 one or more anti-CD154 antibody amino acids Ser31, Tyr32, Tyr33, Asn52, Ser54, Asp57, Asn59, Arg102, Asn103 of the heavy chain and amino acids Ser31, Ser32, Tyr36, Ser95 and Trp96 of the light chain according to Figure 4; or a homologue of said molecular complex, wherein said homologue comprises a second binding site. 15 that has a root mean square deviation from the backbone atoms of said CD154 amino acids between 0.00Å and 1.50Å, preferably between 0.00Å and 1.00Å, more preferably between 0.00Å and 0.50Å. The first binding 20 site was calculated with the program CONTACT (Navaja, J. (1994) Acta Crystallogr. A 50, 157-163) from the CCP4 program package (Collaborative Computational project No. 4. The CCP4 Suite: programs for protein crystallography Acta Cryst. D 50, 760-763). 25 program found all residues whose distance from contact residues of the other molecule of the complex was between 1 and 3.6 Angstroms. The first and/or the second binding site may be a binding site for 5c8 mAb, or an antigen binding fragment thereof, or hu5c8 mAb, 30 or an antigen binding fragment thereof.

Another embodiment of the present invention provides a molecular complex defined by structure coordinates of one or more anti-CD154 antibody amino

acids Ser31, Tyr32, Tyr33, Asn52, Ser54, Asp57, Asn59, Arg102, Asn103 of the heavy chain and amino acids Ser31, Ser32, Tyr36, Ser95 and Trp96 of the light chain according to Figure 4; or a homologue of said molecular complex, wherein said homologue has a root mean square deviation from the backbone atoms of said amino acids between 0.00Å and 1.50Å, preferably between 0.00Å and 1.00Å, more preferably between 0.00Å and 0.50Å.

Yet another embodiment of the present invention provides a molecular complex defined by at 10 least a portion or all of the structure coordinates of all the CD154 and anti-CD154 antibody amino acids set forth in Figure 4, or a homologue of said molecular complex, wherein said homologue has a root mean square deviation from the backbone atoms of said amino acids 15 between 0.00Å and 1.50Å, preferably between 0.00Å and 1.00Å, more preferably between 0.00Å and 0.50Å. molecular complex could have a binding site and the homologue of the molecular complex could have a binding 20 site. Either or both of said binding sites may be a binding site for 5c8 mAb, or an antigen binding fragment thereof, or hu5c8 mAb, or an antigen binding fragment thereof.

Those of skill in the art will understand

25 that a set of structure coordinates for a polypeptide complex is a relative set of points that define a shape in three dimensions. Thus, it is possible that an entirely different set of coordinates could define a similar or identical shape. Moreover, slight

30 variations in the individual coordinates will have little effect on overall shape.

The variations in coordinates discussed above may be generated due to mathematical manipulations of

the structure coordinates. For example, the structure coordinates set forth in Figure 4 could be manipulated by crystallographic permutations of the structure coordinates, fractionalization of the structure coordinates, integer additions or subtractions to sets of the structure coordinates, inversion of the structure coordinates, or any combination thereof.

Alternatively, modification in the crystal structure due to mutations, additions, substitutions, and/or deletions of amino acids, or other changes in any of the components that make up the crystal could also account for variations in structure coordinates. If such variations are within an acceptable standard error as compared to the original coordinates, the resulting three dimensional shape is considered to be the same as that of the unmodified crystal.

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Various computational analyses are therefore necessary to determine whether a molecular complex or a portion thereof is sufficiently similar to all or parts of the extracellular domain of a CD154/Fab fragment of humanized 5c8 mAb structure described above as to be considered the same. Such analyses may be carried out in current software applications, such as the Molecular Similarity application of QUANTA (Molecular Simulations Inc., San Diego, CA) version 4.1, and as described in its accompanying User's Guide.

The Molecular Similarity application permits comparisons between different structures, different conformations of the same structure, and different parts of the same structure. The procedure used in Molecular Similarity to compare structures is divided into four steps: 1) load the structures to be compared; 2) define the atom equivalences in these

- 22 -

structures; 3) perform a fitting operation; and 4) analyze the results.

Each structure is identified by a name. One structure is identified as the target (i.e., the fixed structure); all remaining structures are working structures (i.e., moving structures). Since atom equivalency within QUANTA is defined by user input, for the purpose of this invention, equivalent atoms such as protein backbone atoms (N, C α , C and O) will be defined for all conserved residues between the two structures being compared. Also, only rigid fitting operations will be considered.

When a rigid fitting method is used, the working structure is translated and rotated to obtain

15 an optimum fit with the target structure. The fitting operation uses an algorithm that computes the optimum translation and rotation to be applied to the moving structure, such that the root mean square difference of the fit over the specified pairs of equivalent atom is

20 an absolute minimum. This number, given in angstroms, is reported by QUANTA.

For the purpose of this invention, any molecular complex that has a root mean square deviation of conserved residue backbone atoms (N, C α , C, 0) between 0.00Å and 1.50Å, preferably between 0.00Å and 1.00Å, more preferably between 0.00Å and 0.50Å, when superimposed on the relevant backbone atoms described by the structure coordinates listed in Figure 4 are considered identical.

The term "root mean square deviation" means the square root of the arithmetic mean of the squares of the deviations from the mean. It is a way to express the deviation or variation from a trend or

object. For purposes of this invention, the "root mean square deviation" defines the variation in the backbone of a protein complex from the relevant portion of the backbone of the CD154 polypeptide portion or the anti-CD154 antibody portion of the CD154/anti-CD154 antibody complex, as defined by the structure coordinates described herein.

Once the structure coordinates of a protein crystal have been determined, they are useful in solving the structures of other crystals.

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In accordance with the present invention, the structure coordinates of a complex comprising the extracellular domain of CD154 and Fab fragment of, for example, humanized 5c8 mAb, and portions thereof, is stored in a machine-readable storage medium. A machine could be a computer. Such data may be used for a variety of purposes, such as drug discovery, discovery of 5c8 mAb variants with improved properties, such as improved specific binding to CD154, and X-ray crystallographic analysis of other protein crystals.

In order to use the structure coordinates generated for the CD154/anti-CD154 antibody complex or one of its binding sites or homologues thereof, it is necessary to convert them into a three-dimensional shape. This is achieved through the use of commercially available software that is capable of generating a three-dimensional graphical representation of molecular complexes, or portions thereof, from a set of structure coordinates.

Accordingly, one embodiment of this invention provides a machine-readable data storage medium comprising a data storage material encoded with machine-readable data comprising a portion of or the

entire set of the structure coordinates set forth in Figure 4. A machine could be a computer. A computer which comprises the data storage medium is also provided by this invention. This invention also provides the computer with instructions to produce three-dimensional representations of the molecular complexes of CD154/anti-CD154 antibody by processing the machine-readable data of this invention. The computer of this invention further comprises a display for displaying the structure coordinates of this invention.

A computer of this invention comprises a machine-readable data storage medium encoded with machine-readable data, wherein said data comprises one of the following four structure coordinates:

(1) the structure coordinates of CD154 amino acids Glu129, Ala130, Ser132, Glu142, Lys143, Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248, His249 and

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20 (2) the structure coordinates of CD154 amino acids Glu129, Ala130, Ser132, Glu142, Lys143, Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248, His249 and Gly250 according to Figure 4, that associates with one or more anti-CD154 antibody amino acids Ser31, Tyr32,

Gly250 according to Figure 4;

- Tyr33, Asn52, Ser54, Asp57, Asn59, Arg102, Asn103 of the heavy chain and amino acids Ser31, Ser32, Tyr36, Ser95 and Trp96 of the light chain according to Figure 4;
- (3) the structure coordinates of one or more anti-CD154 antibody amino acids Ser31, Tyr32, Tyr33, Asn52, Ser54, Asp57, Asn59, Arg102, Asn103 of the heavy chain and amino acids Ser31, Ser32, Tyr36, Ser95 and Trp96 of the light chain according to Figure 4; or

(4) the structure coordinates of at least a portion or all of all the CD154 and anti-CD154 antibody amino acids set forth in Figure 4;

and said computer comprises instructions for processing 5 said machine-readable data into a three-dimensional representation of a molecular complex of this invention, or a homologue thereof. Preferably, the computer further comprises a display for displaying said structure coordinates. Such computers produce a three dimensional representation of the molecular complexes, and homologues thereof, of this invention.

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This invention also provides a computer for determining at least a portion of the structure coordinates corresponding to X-ray diffraction data obtained from a molecular complex of CD154/anti-CD154 antibody, wherein said computer comprises:

- a machine-readable data storage medium a) comprising a data storage material encoded with machine-readable data, wherein said data comprises at least a portion of the structure coordinates of CD154 and/or anti-CD154 antibody according to Figure 4;
- a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises X-ray diffraction data obtained from said molecular complex; and
- C) instructions for performing a Fourier transform of the machine readable data of (a) and for processing said machine readable data of (b) into structure coordinates.

Preferably, the computer further comprises a display for displaying said structure coordinates.

This invention also provides a computer for determining at least a portion of the structure coordinates corresponding to an X-ray diffraction pattern of a molecular complex, wherein said computer comprises:

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- a) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises at least a portion of the structure coordinates according to Figure 4;
- b) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises an X-ray diffraction pattern of said molecular complex;
- 15 c) a working memory for storing instructions for processing said machine-readable data of a) and b);
- d) a central processing unit coupled to said working memory and to said machine-readable data of a) and b) for performing a Fourier transform of the machine readable data of (a) and for processing said machine readable data of (b) into structure coordinates; and
- e) a display coupled to said central processing unit for displaying said structure coordinates of said molecular complex.

Figure 5 demonstrates one version of these embodiments. System 10 includes a computer 11 comprising a central processing unit ("CPU") 20, a working memory 22 which may be, e.g., RAM (random-access memory) or "core" memory, mass storage memory 24 (such as one or more disk drives or CD-ROM or DVD-ROM drives), one or more cathode-ray tube ("CRT")

display terminals 26, one or more keyboards 28, one or more input lines 30, and one or more output lines 40, all of which are interconnected by a conventional bidirectional system bus 50.

Input hardware 36, coupled to computer 11 by input lines 30, may be implemented in a variety of ways. Machine-readable data of this invention may be inputted via the use of a modem or modems 32 connected by a telephone line or dedicated data line 34.

10 Alternatively or additionally, the input hardware 36 may comprise CD-ROM or DVD-ROM drives or disk drives 24. In conjunction with display terminal 26, keyboard 28 may also be used as an input device.

Output hardware 46, coupled to computer 11 by output lines 40, may similarly be implemented by conventional devices. By way of example, output hardware 46 may include CRT display terminal 26 for displaying a graphical representation of a binding site of this invention using a program such as QUANTA as described herein. Output hardware might also include a printer 42, so that hard copy output may be produced, or a disk drive 24, to store system output for later use.

In operation, CPU 20 coordinates the use of
the various input and output devices 36, 46,
coordinates data accesses from mass storage 24 and
accesses to and from working memory 22, and determines
the sequence of data processing steps. A number of
programs may be used to process the machine-readable
data of this invention. Such programs are discussed in
reference to the computational methods of drug
discovery as described herein. Specific references to
components of the hardware system 10 are included as

appropriate throughout the following description of the data storage medium.

Figure 6 shows a cross-section of a magnetic data storage medium 100 which can be encoded with a 5 machine-readable data that can be carried out by a system such as system 10 of Figure 5. Medium 100 can be a conventional floppy diskette or hard disk, having a suitable substrate 101, which may be conventional, and a suitable coating 102, which may be conventional, on one or both sides, containing magnetic domains (not visible) whose polarity or orientation can be altered magnetically. Medium 100 may also have an opening (not shown) for receiving the spindle of a disk drive or other data storage device 24.

The magnetic domains of coating 102 of medium 100 are polarized or oriented so as to encode in manner which may be conventional, machine readable data such as that described herein, for execution by a system such as system 10 of Figure 5.

20 Figure 7 shows a cross-section of an optically-readable data storage medium 110 which also can be encoded with such a machine-readable data, or set of instructions, which can be carried out by a system such as system 10 of Figure 5. Medium 110 can be a conventional compact disk or DVD disk read only memory (CD-ROM or DVD-ROM) or a rewritable medium, such as a magneto-optical disk which is optically readable and magneto-optically writable. Medium 100 preferably has a suitable substrate 111, which may be conventional, and a suitable coating 112, which may be conventional, usually of one side of substrate 111.

In the case of CD-ROM, as is well known, coating 112 is reflective and is impressed with a

plurality of pits 113 to encode the machine-readable data. The arrangement of pits is read by reflecting laser light off the surface of coating 112. A protective coating 114, which preferably is substantially transparent, is provided on top of coating 112.

In the case of a magneto-optical disk, as is well known, coating 112 has no pits 113, but has a plurality of magnetic domains whose polarity or orientation can be changed magnetically when heated above a certain temperature, as by a laser (not shown). The orientation of the domains can be read by measuring the polarization of laser light reflected from coating 112. The arrangement of the domains encodes the data as described above.

For the first time, the present invention permits the use of structure-based and rational drug design techniques to design, select, and synthesize chemical entities, compounds (such as agonists or antagonists of CD154), and 5c8 mAb variants with improved properties, such as higher or lower binding affinity for CD154 as compared to 5c8 mAb.

Additionally, the present invention permits the use of structure-based or rational drug design techniques to make improvements of currently available CD154 antagonists, that are capable of binding to the extracellular domain of CD154/Fab fragment of humanized 5c8 mAb complex, or any portion thereof.

One particularly useful drug design technique enabled by this invention is iterative drug design. Iterative drug design is a method for optimizing associations between a protein and a compound (that compound includes an antibody) by determining and

evaluating the three-dimensional structures of successive sets of protein/compound complexes.

Those of skill in the art will realize that association of natural receptors (such as CD40), or substrates with the binding sites of their corresponding ligand (such as CD154, which is also known as CD40 ligand) or enzymes is the basis of many biological mechanisms of action. Similarly, many drugs (which include mAbs) exert their biological effects 10 through association with the binding sites of, for example, ligands (such as CD154), receptors and Such associations may occur with all or any parts of the binding sites. For example, 5c8 mAb binds to CD154 and blocks the interaction between CD154 and 15 CD40. An understanding of such associations enables the design of drugs having more favorable associations with their target ligand, receptor or enzyme, and thus, improved biological effects. Therefore, this information is valuable in designing potential chemical 20 entities or inhibitors (including compounds and antibodies, such as, inter alia, 5c8 mAb variants and variants of other anti-CD154 antibodies) of ligands, receptors or enzymes.

The term "binding site", as used herein,

25 refers to a region of a protein, that, as a result of
 its shape, favorably associates with another protein, a
 chemical entity, a compound or an antibody, and an
 antigen binding fragment thereof. For example, the
 binding site on CD154 for 5c8 mAb is the epitope of 5c8

30 mAb. This binding site could also be the binding site
 of a chemical entity, a compound or variant of 5c8 mAb,
 or antigen binding fragments thereof. CD154 also has a
 binding site for CD40.

The term "associating with" refers to a condition of proximity between two or more chemical entities, compounds and proteins, or portions thereof. The association may be non-covalent -- wherein the juxtaposition is energetically favored by hydrogen bonding or van der Waals or electrostatic interactions -- or it may be covalent.

In iterative drug design, crystals of a series of protein/compound or antibody complexes are obtained and then the three-dimensional structure of 10 each new complex is solved. Such an approach provides insight into the association between the proteins and compounds or antibodies of each new complex. accomplished by selecting compounds or antibodies with 15 inhibitory activity, obtaining crystals of the new protein/compound or antibody complex, solving the three-dimensional structure of the complex, and comparing the associations between the new protein/compound or antibody complex and previously solved protein/compound or antibody complexes. By 20 observing how changes in the compound or antibody affect the protein/compound or antibody associations, these associations may be optimized.

In some cases, iterative drug design is

25 carried out by forming successive protein-compound or
antibody complexes and then crystallizing each new
complex. Alternatively, a pre-formed protein crystal
is soaked in the presence of an inhibitor, thereby
forming a protein/compound complex and obviating the
30 need to crystallize each individual protein/compound or
antibody complex.

The structure coordinates set forth in Figure 4 can also be used to aid in obtaining

structural information about another crystallized molecular complex. This may be achieved by any of a number of well-known techniques, including molecular replacement. This method is especially useful for determining the structures of CD154 or anti-CD154 antibody mutants and homologues.

The structure coordinates set forth in
Figure 4 can also be used for determining at least a
portion of the three-dimensional structure of a

10 molecular complex which contains at least some
structural features similar to at least a portion of a
CD154 anti-CD154 complex. In particular, structural
information about another crystallized molecular
complex may be obtained. This may be achieved by any
15 of a number of well-known techniques, including
molecular replacement.

Therefore, another embodiment of this invention provides a method of utilizing molecular replacement to obtain structural information about a crystallized molecular complex whose structure is unknown comprising the steps of:

- a) generating an X-ray diffraction pattern from said crystallized molecular complex; and
- b) applying at least a portion of the
 25 structure coordinates set forth in Figure 4 to the
 X-ray diffraction pattern to generate a
 three-dimensional electron density map of the molecular
 complex whose structure is unknown.

Preferably, the crystallized molecular 30 complex comprises a CD154 polypeptide and an anti-CD154 antibody polypeptide.

By using molecular replacement, all or part of the structure coordinates of the extracellular

domain of the CD154/Fab fragment of the humanized 5c8 mAb complex provided by this invention (and set forth in Figure 4) can be used to determine the structure of a crystallized molecular complex whose structure is unknown more rapidly and efficiently than attempting to determine such information <u>ab initio</u>. This method is especially useful in determining the structure of CD154 and anti-CD154 antibody mutants and homologues.

Molecular replacement provides an accurate 10 estimation of the phases for an unknown structure. Phases are a factor in equations used to solve crystal structures that cannot be determined directly. Obtaining accurate values for the phases, by methods other than molecular replacement, is a time-consuming process that involves iterative cycles of 15 approximations and refinements and greatly hinders the solution of crystal structures. However, when the crystal structure of a protein containing at least a homologous portion has been solved, the phases from the 20 known structure provide a satisfactory estimate of the phases for the unknown structure.

Thus, molecular replacement involves generating a preliminary model of a molecular complex whose structure coordinates are unknown, by orienting and positioning the relevant portion of the extracellular domain of the CD154/Fab fragment of the humanized 5c8 mAb complex according to Figure 4 within the unit cell of the crystal of the unknown molecular complex, so as best to account for the observed X-ray diffraction pattern of the crystal of the molecule or molecular complex whose structure is unknown. Phases can then be calculated from this model and combined with the observed X-ray diffraction pattern amplitudes

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to generate an electron density map of the structure whose coordinates are unknown. This, in turn, can be subjected to any well-known model building and structure refinement techniques to provide a final,

5 accurate structure of the unknown crystallized molecular complex [E. Lattman, "Use of the Rotation and Translation Functions", in Meth. Enzymol., 115, pp. 55-77 (1985); M. G. Rossmann, ed., "The Molecular Replacement Method", Int. Sci. Rev. Ser., No. 13,

10 Gordon & Breach, New York (1972)].

The structure of any portion of any crystallized molecular complex that is sufficiently homologous to any portion of the extracellular domain of a CD154/Fab fragment of humanized 5c8 mAb complex can be solved by this method.

In a preferred embodiment, the method of molecular replacement is utilized to obtain structural information about a molecular complex, wherein the complex comprises a CD154-like polypeptide. Preferably the CD154-like polypeptide is CD154, a mutant thereof or a homologue thereof.

The structure coordinates of the extracellular domain of a CD154/Fab fragment of a humanized 5c8 mAb complex as provided by this invention 25 are particularly useful in solving the structure of other crystal forms of CD154-like polypeptide, preferably other crystal forms of CD154; CD154-like polypeptide/anti-CD154 antibody-like polypeptide, preferably the extracellular domain of CD154/Fab fragment of humanized 5c8 mAb; or complexes comprising any of the above.

Such structure coordinates are also particularly useful to solve the structure of crystals

of CD154-like polypeptide/anti-CD154 antibody-like polypeptide complexes, particularly the extracellular domain of a CD154/Fab fragment of a humanized 5c8 mAb, co-complexed with a variety of chemical entities. approach enables the determination of the optimal sites for interaction between chemical entities and interaction of candidate CD154 agonists or antagonists with CD154 or the extracellular domain of CD154/Fab fragment of humanized 5c8 mAb complex. For example, 10 high resolution X-ray diffraction data collected from crystals exposed to different types of solvent allows determination of the location where each type of solvent molecule resides. Small molecules that bind tightly to these sites can then be designed and 15 synthesized and tested for their CD154 antagonist activity.

All of the complexes referred to above may be studied using well-known X-ray diffraction techniques and may be refined versus 1.5-3.5 Å resolution X-ray data to an R value of about 0.20 or less using computer software, such as X-PLOR (Yale University, ©1992, distributed by Molecular Simulations, Inc.; see, e.g., Blundell & Johnson, supra; Meth. Enzymol., vol. 114 & 115, H. W. Wyckoff et al., eds., Academic Press (1985)). This information may thus be used to optimize known CD154 antagonists, such as anti-CD154 antibodies, and more importantly, to design new or improved CD154 antagonists.

A chemical entity, a compound (including an agonist or antagonist of CD154) or a variant of the 5c8 mAb, or an antigen binding fragment thereof, or hu5c8 mAb, or an antigen binding fragment thereof, or variants of another anti-CD154 antibody, or an antigen

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binding fragment thereof, can be designed by computational means by performing fitting operations. A compound includes macromolecules such as proteins or polypeptides.

The present invention also encompasses methods of evaluating the potential of a chemical entity to associate with a molecular complex of this invention, or a homologue of said molecular complex.

This invention provides a method for

10 evaluating the potential of a chemical entity to
associate with a molecular complex of this invention,
or a homologue of said molecular complex, comprising
the steps of:

- (i) employing computational means to

 15 perform a fitting operation between the chemical entity
 and a binding site (the binding site could be a binding
 site for 5c8 mAb, or an antigen binding fragment
 thereof, or hu5c8 mAb, or an antigen binding fragment
 thereof) of the molecular complex or a binding site of

 20 the homologue of the molecular complex; and
 - (ii) analyzing the results of said fitting operation to quantify the association between the chemical entity and either binding site.

The present invention also encompasses
25 methods for identifying a potential agonist or
antagonist of CD154 comprising the steps of:

a) using the structure coordinates of CD154 amino acids Glu129, Ala130, Ser132, Glu142, Lys143, Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248, His249 and Gly250 according to Figure 4 ± a root mean square deviation from the backbone atoms of said CD154 amino acids between 0.00Å and 1.50Å,

preferably between 0.00Å and 1.00Å, more preferably between 0.00Å and 0.50Å; or using the structure coordinates of CD154 amino acids Glu129, Ala130, Ser132, Glu142, Lys143, Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248, His249 and Cly250 according to Figure 4, that accordi

- Gly250 according to Figure 4, that associate with one or more anti-CD154 antibody amino acids Ser31, Tyr32, Tyr33, Asn52, Ser54, Asp57, Asn59, Arg102, Asn103 of the heavy chain and amino acids Ser31, Ser32, Tyr36,
- Ser95 and Trp96 of the light chain according to Figure 4 ± a root mean square deviation from the backbone atoms of said CD154 amino acids between 0.00Å and 1.50Å, preferably between 0.00Å and 1.00Å, more preferably between 0.00Å and 0.50Å; or
- using at least a portion of the structure coordinates of all the amino acids of CD154 and anti-CD154 antibody according to Figure 4 ± a root mean square deviation from the backbone atoms of said amino acids between 0.00Å and 1.50Å, preferably between 0.00Å and 1.00Å,
- 20 more preferably between 0.00Å and 0.50Å;
 to generate a three-dimensional structure of a
 molecular complex comprising a binding site (the
 binding site could be a binding site for 5c8 mAb, or an
 antigen binding fragment thereof, or hu5c8 mAb, or an
 25 antigen binding fragment thereof);
 - b) employing said three-dimensional structure to design or select said potential agonist or antagonist;
- c) synthesizing said potential agonist or 30 antagonist; and
 - d) contacting said potential agonist or antagonist with CD154 to determine the ability of said potential agonist or antagonist to bind to (interact

with) CD154; or contacting said potential agonist or antagonist with CD154 under conditions that permit said potential agonist or antagonist to interact with (bind to) CD154, if said potential agonist or antagonist is 5 capable of binding to CD154.

This method could further comprise the step of:

e) determining whether said potential antagonist interrupts CD40:CD154 interaction.

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10 A potential agonist or a potential antagonist is a compound. A compound can be a macromolecule, such as a protein or a polypeptide.

This invention also encompasses methods for evaluating the potential of a variant of 5c8 mAb, or an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof, or another anti-CD154 antibody, or an antigen binding fragment thereof, to associate with a molecular complex of this invention or a homologue of said molecular complex; comprising the steps of:

- employing computational means to (i) perform a fitting operation between the variant and a binding site (the binding site could be a binding site for 5c8 mAb, or an antigen binding fragment thereof, or hu5c8 mAb, or an antigen binding fragment thereof) of a molecular complex of this invention or a binding site (the binding site could be a binding site for 5c8 mAb, or an antigen binding fragment thereof, or hu5c8 mAb, or an antigen binding fragment thereof) of a homologue of the molecular complex; and
- (ii) analyzing the results of said fitting operation to quantify the association between

the binding site of the molecular complex or the binding site of the homologue of the molecular complex.

Thus, the present invention provides 5c8 mAb variants (or variants of other anti-CD154 antibodies) with improved properties as compared to 5c8 mAb, such as increased or decreased binding affinity for CD154.

The present invention also encompasses the chemical entities, compounds, such as agonists or antagonists of CD154 or variants of 5c8 mAb (or other anti-CD154 antibodies), or an antigen binding fragment thereof, or hu5c8 mAb, or an antigen binding fragment thereof, identified by the methods of this invention.

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For the first time, the present invention permits the use of molecular design techniques to
15 design, select and synthesize chemical entities, compounds, including agonists or antagonists of CD154, and variants of 5c8 mAb (or another anti-CD154 antibody), and antigen binding fragments thereof, capable of binding to CD154, including CD40:CD154
20 binding interruptors.

The design of chemical entities, compounds including agonists or antagonists of CD154 and variants of 5c8 mAb (or another anti-CD154 antibody), and antigen binding fragments thereof, that bind to CD154 according to this invention generally involves consideration of two factors. First, the chemical entity, compound or 5c8 mAb variant must be capable of physically and structurally associating with CD154. Non-covalent molecular interactions important in the association of a protein, such as CD154, with its binding partner include hydrogen bonding, van der Waals and hydrophobic interactions.

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Second, the chemical entity, compound or 5c8 mAb variant must be able to assume a conformation that allows it to associate with CD154 directly. Although certain portions of the chemical entity, compound or 5c8 mAb variant or humanities 5c8 mAb variant will not directly participate in these associations, those portions of the chemical entity, 5c8 mAb variant or compound may still influence the overall conformation of the molecule. This, in turn, may have a significant 10 impact on potency. Such conformational requirements include the overall three-dimensional structure and orientation of the chemical entity, 5c8 mAb variant or compound in relation to all or a portion of the binding site, e.g., active site or accessory binding site of CD154, or the spacing between functional groups of a 15 compound comprising several chemical entities that directly interact with CD154.

The potential binding effect on CD154 or CD40:CD154 binding interruption of a chemical entity, 20 compound or 5c8 mAb variant can be analyzed prior to its actual synthesis or generation and testing by the use of computer modeling techniques. theoretical structure of the given entity or compound or 5c8 mAb variant suggests insufficient interaction and association with CD154, synthesis and testing of 25 the entity or compound or generation and testing of 5c8 mAb variant is obviated. However, if computer modeling indicates a strong interaction, the entity, compound or 5c8 mAb variant may then be generated and tested for its ability to bind to CD154 and interrupt its 30 association with CD40 using the assays described below. In this manner, generation of inoperative entities, compounds or 5c8 mAb variants may be avoided.

A CD154-binding entity, compound or variant of 5c8 mAb or humanized 5c8 mAb, or antigen binding fragments of either, can be computationally evaluated and designed by means of a series of steps in which chemical entities or fragments are screened and selected for their ability to associate with the binding sites of CD154 as defined by this invention.

One skilled in the art can use one of several methods to screen chemical entities or fragments for 10 their ability to associate with CD154 and more particularly with the binding sites of CD154. process may begin by visual inspection of, for example, the binding sites for anti-CD154 antibody, on the computer screen based on the CD154 coordinates in Figure 4 generated from the machine-readable storage 15 medium. Selected fragments or chemical entities may then be positioned in a variety of orientations, or docked, within an individual binding site of CD154, as defined <u>supra</u>. Docking may be accomplished using software such as Quanta or Sybyl, followed by energy 20 minimization and molecular dynamics with standard molecular mechanics forcefields, such as CHARMM and AMBER.

Specialized computer programs may also assist in the process of selecting fragments or chemical entities. These include, <u>inter alia</u>:

1. GRID (Goodford, P.J., "A Computational Procedure for Determining Energetically Favorable Binding Sites on Biologically Important Macromolecules", J. Med. Chem., 28, pp. 849-857 (1985)). GRID is available from Oxford University, Oxford, UK.

30

MCSS (Miranker, A. and M. Karplus, "Functionality Maps of Binding Sites: A Multiple Copy Simultaneous Search Method." Proteins:
 Structure, Function and Genetics, 11, pp. 29-34

- (1991)). MCSS is available from Molecular Simulations, Burlington, MA.
- 3. AUTODOCK (Goodsell, D.S. and A.J. Olsen,
 "Automated Docking of Substrates to Proteins by
 Simulated Annealing", Proteins: Structure,
 Function, and Genetics, 8, pp. 195-202 (1990)).
 AUTODOCK is available from Scripps Research
 Institute, La Jolla, CA.
- 4. DOCK (Kuntz, I.D. et al., "A Geometric Approach to Macromolecule-Ligand Interactions", J. Mol. Biol., 161, pp. 269-288 (1982)). DOCK is available from University of California, San Francisco, CA.

Once suitable chemical entities or fragments

15 have been selected, they can be assembled into a single compound. Assembly may proceed by visual inspection of the relationship of the fragments to each other on the three-dimensional image displayed on a computer screen in relation to the structure coordinates of CD154.

20 This is followed by manual model building using software such as Quanta or Sybyl.

The above-described evaluation process for chemical entities may be performed in a similar fashion for chemical compounds and 5c8 mAb variants.

- Useful programs to aid one of skill in the art in connecting the individual chemical entities or fragments include:
- 1. CAVEAT (Bartlett, P.A. et al, "CAVEAT: A Program to Facilitate the Structure-Derived Design of Biologically Active Molecules". In "Molecular Recognition in Chemical and Biological Problems", Special Pub., Royal Chem. Soc., 78, pp. 182-196 (1989)). CAVEAT is available from the University of California, Berkeley, CA.
 - 35 2. 3D Database systems such as MACCS-3D (MDL Information Systems, San Leandro, CA). This area is reviewed in Martin, Y.C., "3D Database Searching in Drug Design", J. Med. Chem., 35, pp. 2145-2154 (1992)).

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3. HOOK (available from Molecular Simulations, Burlington, MA).

Instead of proceeding to build a CD154 antagonist or a CD154 binding compound in a step-wise fashion one fragment or chemical entity at a time, as described above, CD154 antagonists or other CD154 binding compounds, including variants of 5c8 mAb or humanized 5c8 mAb, or antigen binding fragments of either, may be designed as a whole or "de novo" using 10 either an empty binding site or optionally including some portion(s) of a known antagonist(s) of CD154 or a CD154 binding compound. These methods include:

- LUDI (Bohm, H.-J., "The Computer Program LUDI: A New Method for the De Novo Design of Enzyme 15 Inhibitors", J. Comp. Aid. Molec. Design, 6, pp. 61-78 (1992)). LUDI is available from Biosym Technologies, San Diego, CA.
- LEGEND (Nishibata, Y. and A. Itai, Tetrahedron, 2. 47, p. 8985 (1991)). LEGEND is available from 20 Molecular Simulations, Burlington, MA.
 - 3. LeapFrog (available from Tripos Associates, St. Louis, MO).

Other molecular modeling techniques may also be employed in accordance with this invention. See, e.g., Cohen, N.C. et al., "Molecular Modeling Software 25 and Methods for Medicinal Chemistry, J. Med. Chem., 33, pp. 883-894 (1990). See also Navia, M.A. and M.A. Murcko, "The Use of Structural Information in Drug Design", Current Opinions in Structural Biology, 2, pp. 202-210 (1992). 30

Once an entity, compound or variant of 5c8 mAb or humanized 5c8 mAb, or antigen binding fragments of either, has been designed or selected by the above methods, the efficiency with which that entity,

35 compound or 5c8 mAb variant may bind to CD154 can be

tested and optimized by computational evaluation. example, a compound that has been designed or selected to function as a CD154 binding compound must also preferably traverse a volume not overlapping that occupied by the binding site when it is bound to the native CD154. An effective CD154 binding compound must preferably demonstrate a relatively small difference in energy between its bound and free states (i.e., a small deformation energy of binding). Thus, the most 10 efficient CD154 binding compound should preferably be designed with a deformation energy of binding of not greater than about 10 kcal/mole, preferably, not greater than 7 kcal/mole. CD154 binding compounds may interact with the CD154 in more than one conformation 15 that is similar in overall binding energy. In those cases, the deformation energy of binding is taken to be the difference between the energy of the free compound and the average energy of the conformations observed when the compound binds to the protein.

20 A compound designed or selected as binding to CD154 may be further computationally optimized so that in its bound state it would preferably lack repulsive electrostatic interaction with the target protein. Such non-complementary (e.g., electrostatic)

25 interactions include repulsive charge-charge, dipoledipole and charge-dipole interactions. Specifically, the sum of all electrostatic interactions between the compound and the protein when the compound is bound to CD154, preferably make a neutral or favorable contribution to the enthalpy of binding.

Specific computer software is available in the art to evaluate compound deformation energy and electrostatic interaction. Examples of programs

designed for such uses include: Gaussian 92, revision C (M.J. Frisch, Gaussian, Inc., Pittsburgh, PA ©1992); AMBER, version 4.0 (P.A. Kollman, University of California at San Francisco, ©1994); QUANTA/CHARMM

5 (Molecular Simulations, Inc., Burlington, MA ©1994); and Insight II/Discover (Biosysm Technologies Inc., San Diego, CA ©1994). These programs may be implemented, for instance, using a Silicon Graphics workstation, IRIS 4D/35 or IBM RISC/6000 workstation

10 model 550. Other hardware systems and software packages will be known to those skilled in the art.

Once a CD154-binding compound has been optimally selected or designed, as described above, substitutions may then be made in some of its atoms or 15 side groups to improve or modify its binding properties. Generally, initial substitutions are conservative, i.e., the replacement group will have approximately the same size, shape, hydrophobicity and charge as the original group. It should, of course, be 20 understood that components known in the art to alter conformation should be avoided. Such substituted chemical compounds may then be analyzed for efficiency of fit to CD154 by the same computer methods described in detail above.

Another approach made possible and enabled by this invention is computational screening of small molecule data-bases for chemical entities or compounds that can bind in whole, or in part, to CD154. In this screening, the quality of fit of such entities to the binding site may be judged either by shape complementarity or by estimated interaction energy.

Meng, E.C. et al., <u>J. Comp. Chem.</u>, 13, pp. 505-524 (1992).

Compounds

The compounds of this invention can be synthetic compounds. In one embodiment, a synthetic compound designed by methods of this invention 5 preferably has a molecular weight equal to or under about 1000 daltons. A synthetic compound designed by methods of this invention preferably is soluble under physiological conditions. A synthetic compound designed by methods of this invention preferably is 10 bioavailable. A synthetic compound designed by methods of this invention is preferably orally administrable. A synthetic compound designed by methods of this invention preferably is able to bind its target (CD154) when the target is present at physiological 15 concentrations. A synthetic compound designed by methods of this invention preferably is non-toxic or has a medically acceptable toxicity.

Assays for Confirming that Compounds Bind and 20 <u>Interrupt CD40:CD154 Interaction</u>

A person skilled in the art is aware of conventional assays for assessing whether the entities, compounds, 5c8 mAb variants or humanized 5c8 mAb variants designed according to the methods of this invention bind specifically to CD154 and whether they interrupt CD40:CD154 interaction. These assays detect whether, or the extent to which, B cells are activated by activated T cells via the interaction between CD154 and CD40. For example, monitoring of CD23 levels on B cells, or secretion of immunoglobulins by B cells is indicative of activation of B cells by activated T cells via the interaction between CD40 and CD154. See, e.g., United States patent 5,474,771. Accordingly,

examples of such assays are: in vitro assays for blocking CD40 and CD154 interaction, in vitro assays for T cell activation of B cells; in vitro assays for immunoglobulin production by B cells and in vivo assays for inhibition of a humoral immune response.

Conditions Associated with Inappropriate CD154 Induced Activation in a Subject

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The chemical entities and compounds designed according to this invention, including agonists or

10 antagonists of CD154, 5c8 mAb variants and humanized 5c8 mAb variants can be used to prevent or treat subjects having conditions associated with inappropriate CD154 induced activation. Treating a condition associated with inappropriate CD154 induced

15 activation in a subject includes, inter alia, attenuating severity of the condition, suppressing effects of the condition, inhibiting the condition and reversing the condition.

Examples of conditions associated with
inappropriate CD154 mediated activation in a subject,
include, inter alia: an unwanted immune response, an
unwanted inflammatory response, an autoimmune disease,
an allergy, an inhibitor response to a therapeutic
agent, rejection of a donor organ and a B cell cancer.

Examples of conditions associated with inappropriate CD154 mediated activation in a subject, include, <u>inter alia</u>: systemic lupus erythematosis, lupus nephritis, lupus neuritis, asthma, chronic obstructive pulmonary disease, bronchitis, emphysema, multiple sclerosis, uveitis, Alzheimer's disease, traumatic spinal cord injury, stroke, atherosclerosis, coronary restenosis, ischemic congestive heart failure,

cirrhosis, hepatitis C, diabetic nephropathy, glomerulonephritis, osteoarthritis, rheumatoid arthritis, psoriasis, atopic dermatitis, systemic sclerosis, radiation-induced fibrosis, Crohn's disease, ulcerative colitis, multiple myeloma and cachexia.

Subjects

5

The novel CD40:CD154 binding interruptors designed according to this invention can be administered for treatment or prophylaxis to any

10 mammalian subject suffering or about to suffer a condition associated with inappropriate CD154 activation. Preferably, the subject is a primate, more preferably a higher primate, most preferably a human. In other embodiments of this invention, the subject may be a mammal of commercial importance, or a companion animal or other animal of value, such as a member of an endangered species. Thus, a subject may be, inter alia, sheep, horses, cattle, goats, pigs, dogs, cats, rabbits, quinea pigs, hamsters, gerbils, rats and mice.

20 Route of Administration

The CD40:CD154 binding interruptors designed according to this invention may be administered in any manner which is medically acceptable. Depending on the specific circumstances, local or systemic

- administration may be desirable. Local administration may be, for example, by subconjunctival administration. Preferably, the interruptor is administered via an oral, an enteral, or a parenteral route such as by an intravenous, intraarterial, subcutaneous,
- intramuscular, intraorbital, intraventricular, intraperitoneal, subcapsular, intracranial, intraspinal, topical or intranasal injection, infusion

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or inhalation. The interruptor also may be administered by implantation of an infusion pump, or a biocompatible or bioerodiable sustained release implant, into the subject.

5 <u>Dosages and Frequency of Treatment</u>

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Generally, the methods described herein involve administration of the CD40:CD154 binding interruptor at desired intervals (e.g., daily, twice weekly, weekly, biweekly, monthly or at other intervals as deemed appropriate) over at least a two- or three-week period. The administration schedule is adjusted as needed to treat the condition associated with inappropriate or abnormal CD154 activation in the subject. The present treatment regime can be repeated in the event of a subsequent episode of illness.

A CD40:CD154 binding interruptor designed using the methods of this invention may be administered in a pharmaceutically effective, prophylactically effective or therapeutically effective amount, which is 20 an amount sufficient to produce a detectable, preferably medically beneficial effect on a subject at risk or afflicted with a condition associated with inappropriate or abnormal CD154 activation. Medically beneficial effects include preventing, inhibiting, reversing or attenuating deterioration of, or detectably improving, the subject's medical condition. The amount and frequency of dosing for any particular compound to be administered to a patient for a given immunological condition associated with inappropriate or abnormal CD154 induced activation in a subject is 30 within the skills and clinical judgement of ordinary practitioners of the medical and pharmaceutical arts.

The general dosage and administration regime may be established by preclinical and clinical trials, which involve extensive but routine studies to determine the optimal administration parameters of the compound.

5 Even after such recommendations are made, the practitioner will often vary these dosages for different subjects based on a variety of considerations, such as the individual's age, medical status, weight, sex, and concurrent treatment with other pharmaceuticals. Determining the optimal dosage and administration regime for each CD40:CD154 binding interruptor used is a routine matter for those of skill

Generally, the frequency of dosing may be
determined by an attending physician or similarly
skilled practitioner, and might include periods of
greater dosing frequency, such as at daily or weekly
intervals, alternating with periods of less frequent
dosing, such as at monthly or longer intervals.

in the medical and pharmaceutical arts.

20 To exemplify dosing considerations for a CD40:CD154 binding interruptor, the following examples of administration strategies, for an anti-CD154 mAb, serve as a guide. The dosing amounts could easily be adjusted or adapted for other types of anti-CD154 25 In general, single dosages of between about compounds. 0.05 and about 50 mg/kg patient body weight are contemplated, with dosages most frequently in the 1-20 mg/kg range. For acute treatment, such as before or at the time of transplantation, or in response to any evidence that graft rejection is beginning, an 30 effective dose of a novel CD40:CD154 binding interruptor compound of this invention may be patterned on that of a representative antibody (such as 5c8 mAb),

ranges from about 1 mg/kg body weight to about 20 mg/kg body weight, administered daily for a period of about 1 to 5 days, preferably by bolus intravenous administration. The same dosage and dosing schedule 5 may be used in the load phase of a load-maintenance regimen, with the maintenance phase involving intravenous or intramuscular administration of antibodies in a range of about 0.1 mg/kg body weight to about 20 mg/kg body weight, for a treatment period of 10 anywhere from weekly to 3 month intervals. treatment may also be carried out by a maintenance regimen, patterned on those in which antibodies are administered by intravenous or intramuscular route, in a range of about 0.1 mg/kg body weight to about 20 15 mg/kg body weight, with interdose intervals ranging from about 1 week to about 3 months. In addition, chronic treatment may be effected by an intermittent bolus intravenous regimen, patterned on those in which between about 1.0 mg/kg body weight and about 100 mg/kg 20 body weight of antibodies are administered, with the interval between successive treatments being from 1 to 6 months. For all except the intermittent bolus regimen, administration may also be by oral, pulmonary, nasal or subcutaneous routes.

25 For treatment, a CD40:CD154 binding interruptor can be formulated in a pharmaceutical or prophylactic composition which includes, respectively, a pharmaceutically or prophylactically effective amount of the CD40:CD154 binding interruptor dispersed in a pharmaceutically acceptable carrier. In some embodiments, the pharmaceutical or prophylactic composition can also include a pharmaceutically or prophylactically effective amount of another

immunosuppressive or immunomodulatory compound,
including without limitation: an agent that interrupts
T cell costimulatory signaling via CD28 (e.g.,
CTLA4-Ig), CD80 or CD86; an agent that interrupts

5 calcineurin signaling (e.g., cyclosporin, a macrolide
such tacrolimus, formerly known as FK506); a
corticosteroid; or an antiproliferative agent (e.g.,
azathioprine). Other therapeutically effective
compounds suitable for use with the CD40:CD154 binding
10 interruptor include rapamycin (also known as
sirolimus); mycophenolate mofetil (MMF), mizoribine,
deoxyspergualin, brequinar sodium, leflunomide,
azaspirane and the like.

Combination therapies according to this invention for treatment of a condition associated with 15 inappropriate or abnormal CD154 activation in a subject include the use of a CD40:CD154 binding interruptor together with agents targeted at B cells, such as anti-CD19, anti-CD28 or anti-CD20 antibody (unconjugated or 20 radiolabeled), IL-14 antagonists, LJP394 (LaJolla Pharmaceuticals receptor blocker), IR-1116 (Takeda small molecule) and anti-Ig idiotype monoclonal antibodies. Alternatively, the combinations may include T cell/B cell targeted agents, such as CTLA4Ig, IL-2 antagonists, IL-4 antagonists, IL-6 antagonists, 25 receptor antagonists, anti-CD80/CD86 monoclonal antibodies, TNF, LFA1/ICAM antagonists, VLA4/VCAM antagonists, brequinar and IL-2 toxin conjugates (e.g., DAB), prednisone, anti-CD3 mAb (OKT3), mycophenolate 30 mofetil (MMF), cyclophosphamide, and other immunosuppressants such as calcineurin signal blockers, including without limitation, tacrolimus (FK506). Combinations may also include T cell targeted agents,

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such as CD4 antagonists, CD2 antagonists and anti-IL-12 antibodies.

The immunomodulatory compound that may be coadministered with an CD40:CD154 binding interruptor to
a subject with a condition associated with
inappropriate or abnormal CD154 activation may be an
antibody that specifically binds to a protein selected
from the group consisting of CD45, CD2, IL2R, CD4, CD8
and RANK Fc.

10 Formulation

In general, CD40:CD154 binding interruptors of this invention are suspended, dissolved or dispersed in a pharmaceutically acceptable carrier or excipient. The resulting therapeutic composition does not 15 adversely affect the recipient's homeostasis, particularly electrolyte balance. Thus, an exemplary carrier comprises normal physiologic saline (0.15M NaCl, pH 7.0 to 7.4). Other acceptable carriers are well known in the art and are described, for example, 20 in Remington's Pharmaceutical Sciences, Gennaro, ed., Mack Publishing Co., 1990. Acceptable carriers can include biocompatible, inert or bioabsorbable salts, buffering agents, oligo- or polysaccharides, polymers, viscoelastic compound such as hyaluronic acid, 25 viscosity-improving agents, preservatives, and the like.

All references cited herein are hereby incorporated by reference.

The following are examples that illustrate

30 the methods and compositions of this invention. These examples are included for the purposes of illustration only.

EXAMPLE 1 DETERMINATION OF THE CRYSTAL STRUCTURE OF HUMANIZED 5c8 FAB-CD154 COMPLEX

Humanized 5c8 mAb was prepared by or for Biogen, Inc. (Cambridge, MA) by the following method. 5 CDNAs encoding the variable regions of the heavy and light chains of anti-human CD154 5c8 mAb (produced by the hybridoma having ATCC Accession Number HB 10916) (as described in United States patent 5,474,771 and Lederman et al. <u>J. Exp. Med.</u> 175: 1091 (1992), the disclosures of both of which are hereby incorporated by 10 reference) were cloned from total cellular RNA from the murine hybridoma cells by RT-PCR. For humanization, the murine CDRs were grafted onto a homologous human variable region framework, retaining murine residues deemed to be important in maintaining antigen binding, 15 by conventional recombinant DNA technology. sequence in Figure 8. Using conventional recombinant DNA technology, the DNA for the variable regions were fused to human constant regions (IgG1 heavy chain and kappa light chain) and a vector for stable expression 20 of humanized 5c8 mAb in NSO myeloma cells was constructed. The cell line was grown and humanized 5c8 mAb was purified by conventional techniques to greater than 95% purity and shown to be biologically active by binding assay and bioassays for inhibition in vitro. 25 The humanized 5c8 mAb maintained the binding properties of the murine 5c8 mAb.

The humanized 5c8 mAb Fab fragments were produced by cleaving whole humanized 5c8 mAb with papain and isolating the Fab fragments, as essentially described by the papain manufacturer (Pierce, Rockford, IL) with Pierce's Immobilized Papain (#20341) with a

few modifications. The intact humanized 5c8 mAb was prepared at a concentration of 10 mg/ml in a buffer containing 20 mM phosphate, 10 mM EDTA and 25 mM cysteine, pH 7.0. Immobilized papain was added at an enzyme to substrate ratio of 1:50 and digestion was allowed to occur overnight at 37°C with rocking. immobilized papain was removed and the crude digest was dialyzed against 20 mM sodium acetate buffer at pH 4.5. The Fab fragments were separated from residual intact 10 antibody, dimeric Fab fragment, and Fc fragment by cation exchange chromatography (Poros HS/M, PerSeptive Biosytems #PO42M26) with a shallow salt gradient. humanized 5c8 mAb Fab fragments were then buffer exchanged into PBS (14.4 mM sodium phosphate dibasic, 15 5.6 mM sodium phosphate monobasic, 150 mM NaCl) and purified further by size exclusion chromatography (Sephacryl S300, Pharmacia Biotech). The humanized 5c8 mAb Fab fragment comprises at least amino acids 1 to 219 of the heavy chain (Gln 1 to Lys 219 in Figures 4 20 and 8) and amino acids 1 to 215 of the light chain (Asp 1 to Arg 215 in Figures 4 and 8). Because the humanized 5c8 mAb Fab fragments were produced by papain digestion, the exact C-termini of the heavy and light chains of hu5c8 mAb Fab fragments were not determined. 25 Amino acids 1 to 219 of the heavy chain and amino acids 1 to 215 of the light chain were visible in the crystal structure.

The CD154 was recombinant soluble CD154 consisting of residues 116-261 of the extracellular domain of human CD154 (Karpusas et al. Structure 3, 1031-1039 (1995) and Karpusas et al. Structure 3, 1446 (1995)). See Figure 8. Recombinant human soluble CD154 consisting of residues 116 to 261 was expressed

and purified from a Pichia pastoris clone as described in Karpusas et al. Structure 3, 1031-1039 (1995) and Karpusas et al. Structure 3, 1446 (1995). The soluble CD154 was mixed with excess hu5c8 mAb Fab fragment and incubated at 37° C for 15 minutes. The uncomplexed hu5c8 mAb Fab fragment was separated from saturated CD154-hu5c8 mAb Fab complexes by size exclusion chromatography using a S200 Sephacryl column (Pharmacia, Gibco). The CD154-hu5c8 mAb Fab complexes 10 were further concentrated to 10-15 mg/ml in PBS buffer using Centricon Plus-20 (Amicon Bioseparations, Millipore). The stoichiometry of CD154 and hu5c8 Fab fragment in the saturated complexes was verified by SDS-PAGE analysis of the complexes with and without 15 crosslinking reagent.

In order to determine conditions of crystallization, an incomplete factorial screen (Jancarick & Kim (1991) J. Appl. Crystallogr. 24, 409-411) was set up using the Crystal Screen kits from 20 Hampton Research (Riverside, CA). In a typical experiment, protein solution was mixed with an equal volume of reservoir solution and a drop of the mixture was suspended under a glass cover slip over the reservoir solution. Crystals were grown by vapor 25 diffusion at room temperature by mixing a reservoir solution of 20% (w/v) PEG MME 550, 0.1 M MES pH 6.5, 0.01 zinc sulfate with equal volume of CD154-5c8 Fab complex solution. The crystals were thin and extremely fragile plates with dimensions $0.7 \times 0.7 \times 0.02 \text{ mm}$. 30 They grew within a few days and were easy to reproduce. Some crystals were washed and dissolved and the sample was subjected to SDS-PAGE confirming that the crystals consisted of CD154-hu5c8 mAb Fab complex.

The crystals were cryoprotected by soaking them in a solution containing 25% PEG 400, 20% PEG MME 550, 0.1 M MES pH 6.5, 0.01 zinc sulfate and frozen in the liquid nitrogen gas stream (-175°C). The procedure of crystal annealing was performed (Harp et al. (1998), Acta Cryst D54, 622-628). Crystals were transferred quickly after freezing in a 0.3 ml solution of 25% PEG 400, 20% PEG MME 550, 0.1 M MES pH 6.5, 0.01 zinc sulfate at room temperature for 3 minutes and then were frozen again in the liquid nitrogen gas stream.

A native X-ray data set up to 3.1 Å resolution was collected from one crystal by using an R-AXIS II image plate detector system (Molecular Structure Corporation, Woodlands, TX). The data were integrated and reduced using the HKL program package (Otwinowski, Z. (1993) Oscillation data reduction program., 56-62, Proceeding of the CCP4 study weekend: data collection and processing, Sawer, L., Issacs, N. & Bailey S. eds, Daresbury Laboratory, Warrington, UK).

The data collection required about 4 days. The data set was 96.1% complete and had an R-merge of 7.6%. See Table 1 for additional data statistics.

10

Data processing suggested a monoclinic unit cell with approximate cell dimensions a=224.48 Å,

25 b=129.91 Å, c=96.49 Å and β=109.6B. The space group was identified as C2. The Matthews volume (Matthews, B.W. (1968), J.Mol.Biol. 33, 491-497) was 3.1 Å³ Da⁻¹, assuming a complex of a CD154 trimer and 3 Fab fragments in the asymmetric unit, with a solvent content of 60.7%. The self rotation function calculated with XPLOR (Brunger, A.T. (1992) X-PLOR Version 3.1: A system for X-ray Crystallography and NMR, Yale University Press, New Haven, CT, USA)

exhibited a strong peak of 6.9763 at K=120° which indicated that there was a 3-fold axis that was perpendicular to the ab plane of the unit cell.

Subsequent molecular replacement computing

5 was done with the program AMoRe (Navaja, J. (1994) Acta

Crystallogr. A 50, 157-163) from the CCP4 program

package (Collaborative Computational Project No. 4.

The CCP4 Suite: programs for protein crystallography.

Acta Cryst. D50, 760-763). The CCP4 Suite: programs

- 10 for protein crystallography <u>Acta Cryst.</u> D 50, 760-763).

 Molecular graphics manipulations were done with the program QUANTA (Molecular Simulations, Inc., San Diego, CA). The coordinates for a trimer of the extracellular domain of CD154 (chains A, B and C) from the crystal
- structure of human CD154 (Karpusas et al. <u>Structure</u> 3, 1031-1039 (1995), Karpusas et al. <u>Structure</u> 3, 1446 (1995), United States patent application 09/180,209 and PCT patent application WO97/00895, the disclosures of all of which are hereby incorporated by reference) (PDB
- entry code laly) was used as a probe for rotation and translation searches. The coordinates of all atoms, including side chains, were included in the search model. The rotation search gave a single solution with a correlation coefficient (cc) of 24.4 that was
- consistent with the 3-fold axis predicted by the selfrotation search. This solution was used for a
 translation search that yielded a single peak with a cc
 of 19.0 and an R-factor of 50.7%. Using rigid body
 refinement, these values refined to cc of 20.0 and an
- R-factor of 50.3%. Subsequently searches for the humanized 5c8 mAb Fab fragment were carried out, keeping the CD154 solution fixed. A partially refined crystal structure of the uncomplexed human humanized

5c8 mAb Fab was used as a search probe. Figure 9 shows the structure coordinates of that crystal structure. The rotation search produced several non-prominent peaks including some related by a 3-fold axis.

5 Translation searches for each of these peaks confirmed that the peaks related by the 3-fold axis correspond to the correct solutions and allowed the 3 humanized 5c8 mAb Fab fragments (cc of 20.6 and an R-factor of 50.2%) to be located. Rigid body refinement of the CD154

10 trimer and the 3 Fab fragments resulted in cc of 35.1 and an R-factor of 48.7%.

Calculation of a 2Fo-Fc electron density map (Figure 3) showed continuous electron density for the CD154 and Fv domains of the Fab fragments but weak or 15 no density for the constant domains of the Fab This indicated that the constant domains of the Fab were not correctly located, apparently because the elbow angle of the Fab differed from that of the search probe. To locate the constant domain, the elbow 20 angle of the Fab (keeping the Fv fixed) was modified in increments of 10° by using a script from the XPLOR package and the correlation coefficient was monitored. The correlation coefficient had its highest value for an elbow angle of -50° , corresponding to the 25 approximate position of the constant domain. Subsequent rigid body refinement with XPLOR, using data in the 20-4 Å resolution range, optimized the position of the constant domain, reducing the R-factor from 49.4% to 40.0 % (R-free = 40.5%).

All subsequent refinement computing was carried out with the XPLOR program. Five percent of the data were allocated for the calculation of R-free factor. To reduce model bias, partial models were used

for 2Fo-Fc map calculation and model refinement. The initial partial model was subjected to simulated annealing and grouped B-factor refinement with noncrystallographic symmetry restraints. The R-work and 5 R-free factors dropped to 27.0% and 32.0% respectively. Several cycles consisting of iterative model building, maximum likelihood positional refinement (Adams, P.D. et al. (1997) Proc. Natl. Acad. Sci. USA 94, 5018-5023) and B-factor refinement followed. Simulated annealing 10 omit maps were calculated to confirm modeling of certain regions of the structure. Only model adjustments that resulted to a drop in the R-free factor were accepted. No bulk solvent correction was The non-crystallographic symmetry restraints were removed in the final steps of refinement. 15 R-work and R-free factors of the final model were 23.3% and 28.5% respectively for the data (F $> 2\sigma$) in the 35-3.1 Å resolution range. Stereochemistry statistics were calculated with PROCHECK (Laskowski, R.A., 20 MacArthur, M.W., Moss, D. S., and Thornton, J.M. (1993) J. Appl. Crystallogr. 26, 283-290). Hydrogen bonds (< 3.6 Å) were found with the program CONTACT (Collaborative Computational Project No. 4. The CCP4 Suite: programs for protein crystallography. Acta 25 Cryst. D50, 760-763). The final model consisted of 13,173 atoms constituting 9 polypeptide chains (chain names are A, B, C for the 3 CD154 monomers, H, K, X for the 3 Fab heavy chains and L, M, Y for the 3 Fab light chains). Table 1 shows the details and summary of the 30 crystallographic analysis.

Table 1

Summary of crystallographic analysis

Data collection

	Cell dimensions a, b, c (Å)	224.48 ,
5		129.91, 96.49
	β (°)	109.62
	Space group	C2
	Resolution (Å)	35-3.1
		(3.21-3.1)†
10	Unique reflections	46508
	Completeness (%)	96.1 (87.7) †
	Average Ι/σ	7.52 (1.97)†
	R _{merge} * (%)	7.6 (18.8) †
	Model	
15	Number of non-H atoms	16,203
	Number of protein residues	1731 ·
	Contents of asymmetric unit	3 Fab
		fragments,
		1 CD154 trimer
20	Average B-factor (Ų)	18.8
	Refinement	
	Resolution range used (F>2 δ)	35-3.1
	R-factor (%)	23.3
	R-free (%)	28.5
25	Stereochemistry	
	RMS deviations	
	Bond lengths (Å)	0.014
	Angles (°)	1.89
	(*) $R_{merge} = \Sigma_h \Sigma_i I_{hi} - I_h / \Sigma_{hi} I_{hi}$	

- (*) $R_{\text{merge}} = \Sigma_h \Sigma_i | I_{\text{hi}} I_h | / \Sigma_{\text{hi}} I_{\text{hi}}$
- 30 (†) Values for the highest resolution shell given in parenthesis.

The structure of the globular part of the CD154 extracellular domain (residues 116-261) complexed with the Fab fragment of the humanized 5c8 mAb was determined at 3.1 Å resolution by molecular replacement 5 and refined to a crystallographic R value of 23.3% (R-free 28.5%). The residues of CD154 visible in the crystal structure were amino acids 119 to 261 (Asn 119 to Leu 261 in Figures 4 and 8). The asymmetric unit of the crystal contained a single complex consisting of a CD154 homotrimer and three Fab fragments. Almost all 10 residues except N-terminal residues 116-118 of CD154 were well-defined in the final 2Fo-Fc electron density The final model consisted of 1731 amino acid residues constituting 9 polypeptide chains and 3 zinc No water molecules have been included in the 15 ions. Some electron density was observed for the model. carbohydrate of CD154 but was not of sufficient quality to allow modeling of carbohydrate residues. stereochemistry was good (root mean square (r.m.s.) deviations on bond lengths is 0.014 Å and on bond 20 angles is 1.89°). The r.m.s. positional deviation between equivalent residues from different CD154 monomers or Fab fragments was small (0.18 Å for main chain atoms) due to using non-crystallographic symmetry restraints during most of the refinement process. non-glycine residues, except residue 183 of CD154, were in the allowed regions of the Ramachandran diagram. The average B-factor of the main chain atoms was 18.8 The constant domains of the Fab fragments have much higher B-factors (average B-factor ~29.5 $\mbox{Å}^2$) compared to the variable domains (average B-factor ~14.1 $\mbox{Å}^2$). This appears to be the consequence of fewer

crystal contacts for the constant domain of the Fab fragment compared to the variable domain.

The complex had the shape of a 3-blade propeller and consisted of three hu5c8 mAb Fab 5 molecules radially bound on a single CD154 homotrimer (Figures 1 and 2). The dimensions of the complex were 140 x 140 x 60 Å. The 3-fold axis of the CD154 trimer coincided with the non-crystallographic 3-fold axis of the complex. The approximate pseudo 2-fold axes of the Fab fragments, which related the heavy and light 10 chains, intersected the 3-fold symmetry axis of the complex and had an approximate angle of 30° upward to a plane perpendicular to the 3-fold axis. When the fact that CD154 is on the cell surface is taken into consideration, this plane is expected to coincide with 15 the cell surface.

The crystallized CD154 fragment is a homotrimeric protein and each monomer folded as β -sheet sandwich with Greek key topology. The overall shape of 20 the trimer resembled that of a truncated pyramid. structure of CD154 in the complex with the Fab was very similar to the structure of the uncomplexed human CD154 (Karpusas et al. <u>Structure</u> 3, 1031-1039 (1995) and Karpusas et al. Structure 3, 1446 (1995), United States patent application 09/180,209 and PCT patent 25 application WO 97/00895). The A-A" loop of CD154 maintained the extended conformation that was observed originally in the uncomplexed CD154 crystal structure and was not typical of other members of the TNF family. 30 It further suggests that this conformation is real and not a consequence of crystal contacts. Superimposition of uncomplexed human CD154 trimer (Karpusas et al. Structure 3, 1031-1039 (1995) and Karpusas et al.

Structure 3, 1446 (1995), United States patent application 09/180,209 and PCT patent application WO 97/00895) (PDB entry laly) on the complexed CD154 trimer, showed that there were no significant 5 conformational changes of CD154 upon hu5c8 mAb Fab binding (r.m.s. deviation is 0.76 Å for main chain atoms). The biggest differences (up to 4 Å shifts) were observed in the CD and EF loops of CD154, which are located to the "top" of the truncated pyramid, away 10 from the hu5c8 Fab epitope. These loops are known to be the most mobile regions of the CD154 moiety (Karpusas et al. <u>Structure</u> 3, 1031-1039 (1995) and Karpusas et al. <u>Structure</u> 3, 1446 (1995), United States patent application 09/180,209 and PCT patent application WO 97/00895) and therefore the observed 15 differences were not likely to be a consequence of hu5c8 Fab binding. Some significant differences, particularly compensatory rotamer shifts, were observed for the side chains of a few residues of the binding 20 epitope, including Y145 and R203 residues of CD154 that

The Fab fragment was obtained from a humanized version of the original murine 5c8 mAb (Figure 8). The humanized L chain construct was based on the human subgroup III k chain from hybridoma AE6-5 (Spatz, L.A. et al. (1990), J Immunol 144, 2821-8). The H chain construct was based on the subgroup I 21/28CL gene (Dersimonian, H. et al. (1987), J Immunol 139, 2496-501). The modeled Fab structure consisted of residues 1-219 of the heavy chain and 1-215 of the light chain. The variable domain of hu5c8 mAb Fab can be superimposed to the variable domain of the anti-p185HER2 antibody (PDB entry 1fvd) with an r.m.s.

positional deviation of 1.36 Å for 1040 equivalent atoms. The elbow angle of the complexed hu5c8 Fab differed by 49.9° from that of the uncomplexed hu5c8 Fab. The complementarity determining region CDR L1, CDR L2 and CDR L3 loops of the light chain have canonical structures 3, 1 and 1 respectively (Chothia et al. (1989) Nature 342, 877-883). The CDR H1 and CDR H2 loops of the heavy chain have canonical structures 1 and 2.

The interaction of a single Fab fragment with CD154 resulted in a total solvent accessible area of 771 Å² for CD154 and 765 Å² for the hu5c8 mAb Fab being buried, assuming a 1.4 Å solvent probe. The antigenic epitope of 5c8 mAb is located on the right-hand side of the intersubunit cleft of CD154 and is elongated and continuous. The long axis of the epitope footprint is parallel to the long axis of the CD40 binding site. Interestingly, although CD154 only exists as a trimer on the cell surface, the epitope is composed only of residues from a single monomer of CD154.

The epitope of hu5c8 mAb Fab on CD154 consisted of residues E129, A130, S132, E142, K143, G144, Y146 of the A-A" loop; C178 of the C strand; and C218, S245, Q246, S248, H249, G250 of the G-H loop of CD154.

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The hu5c8 mAb Fab was observed to use CDR H1, CDR H2 and CDR H3 hypervariable regions as well as CDR L1 and CDR L3 to form contacts with CD154. Most of the buried surface area was contributed by the heavy chain (61%). The residues of hu5c8 Fab involved in contacts with CD154 were S31(H), Y32(H), Y33(H) of CDR H1; N52(H), S54(H), D57(H), N59(H) of CDR H2; R102(H), N103(H) of CDR H3 and S31(L), S32(L), Y36(L) of CDR L1;

S95(L), W96(L) of CDR L3. The contacts were mixed in There were several polar interactions, some character. of which involved several main chain atoms while others involved side chain atoms (Figure 10). For example, 5 the side chain of Y32(H) was observed to interact with the side chain of S132 of CD154 and the side chain of D57(H) was observed to interact with S248 of CD154. Also, the O1 atom of the N55 side chain was observed to form an H-bond with the carbonyl oxygen of Cys178 of 10 CD154. No salt bridge interactions were found in the In addition, several aromatic residues interface. (Y146, H249 of CD154, Y32, Y33 of the heavy chain and Y36, W96 of the light chain) contribute to van der Waals contacts between CD154 and the antibody.

15 Based on the co-crystal structure as described in **Example 1**, the epitope for hu5c8 mAb on CD154 overlaps but is not identical with the putative CD40 binding site. This is in agreement with previous conclusions based on mutagenesis data (Garber, E. et al. (1999), <u>J Biol Chem</u> 274, 33545-50). For example, 20 residues K143, and Y146, which have been identified by mutagenesis to be important for the interaction of CD154 with CD40 (Bajorath, J. et al. (1995), Biochemistry 34, 1833-44 and Singh, J. et al.(1998) 25 Protein Sci 7, 1124-35) are also involved in interactions with hu5c8 mAb. In particular, the K143 side chain was observed to interact with the side chain of N103(H) of hu5c8 mAb as well as the main chain carbonyl of S95(L) of hu5c8 mAb. Y146 was observed to 30 interact with the S32(L) of the hu5c8 mAb. interaction occurred at the bottom of the cleft formed . between the heavy and light chain and appeared to be the most prominent feature of the antigen-antibody

interaction. The overall structure of CD154 was very similar to that of the uncomplexed CD154. Thus, the neutralizing effect of the hu5c8 mAb appears to be a consequence of steric blocking of CD154-CD40 interactions and not of any antibody-induced conformational changes. The solvent accessible surface buried upon complexation of CD154 with CD40 has been predicted to be in the range of 834 to 1123 Å² (Bajorath, J. et al. (1995), Biochemistry 34, 9884-92 and Singh, J. et al.(1998) Protein Sci 7, 1124-35). This is larger than the surface area of 765 Å² buried in the CD154-hu5c8 Fab complex. The epitope is a relatively flat region of the surface of CD154.

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Significant electron density was observed for 15 the biantennary complex-type carbohydrate attached to residue N240 of CD154. The carbohydrate chain was accommodated within a large solvent channel of the crystal lattice, about 100 Å wide. The electron density of the carbohydrate was not of sufficient 20 quality to allow model building of the its residues, presumably due to disorder. However, it was apparent that the carbohydrate forms extensive non-covalent interactions with the heavy chain of the hu5c8 mAb. Residues of the antibody that were observed to interact within contact distance include Q43(H), E62(H), K63(H) 25 and S66(H). These contacts may contribute to the energy of the interaction of hu5c8 mAb with CD154. CD154 mutant N240Q, which lacks a carbohydrate, exhibited a reduced level of immunoprecipitation with 30 hu5c8 mAb (Table 2). However the level of expression of the mutant is lower than wild-type (WT) which makes it difficult to ascertain whether or not the loss of the carbohydrate has a negative effect on hu5c8 mAb .

binding. Additionally, the electron density map revealed that the carbohydrate interacts with R207 of CD154, a residue that has an important contribution to the positive electrostatic potential in its immediate region of CD154 molecule (Singh, J. et al. (1998), Protein Sci 7, 1124-35).

A zinc ion was found to be located near the binding site. It was coordinated by D100(H), D106(H) and E59(L) and there were no direct contacts of the ion to CD154. This ion is unlikely to play a functional role and its presence is probably a crystallization artifact.

In summary, the crystal structure of CD154 in complex with the humanized 5c8 mAb Fab according to this invention constitutes the first available 15 structure of a TNF family member in complex with a neutralizing antibody Fab fragment. The structure showed that the antibody inhibits CD154 function by sterically blocking the binding site of CD40 receptor. 20 The possibility that antibody binding may prevent conformational changes of CD154, which may be necessary for CD40 binding, can not be discounted. However, comparison of available TNF ligand structures and their complexes with receptors does not show evidence of significant conformational changes, upon receptor 25 binding, that are distant from the binding site (Banner, K.H. et al. (1996), <u>Br J Pharmacol</u> 119, 1255-61 and Hymowitz, S.G. et al. (1999), Mol Cell 4, 563-71).

The epitope of the antibody was located just above a cluster of hydrophobic core residues whose mutation has been associated with HIGMS. It has been proposed that these mutations may cause structural

perturbations of a region of the surface that is important for receptor binding (Karpusas, M. et al. (1995), Structure 3, 1426). It is interesting that the CD154 antigenic epitope for hu5c8 mAb coincides with the region of the surface that is most likely to be perturbed by the mutations.

EXAMPLE 2 ASSESSMENT OF THE NATURE OF THE 5c8
MONOCLONAL ANTIBODY AND CD154 INTERFACE
BY EXAMINING THE ABILITY OF SITE—
DIRECTED MUTANTS OF CD154 TO BIND TO
hu5c8 MAB AND CD40

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The location and nature of the CD154 antigenic epitope of 5c8 mAb was studied by site-directed mutagenesis of human CD154. Mutation

15 sites selected included surface residues in the vicinity of the putative CD40 binding site, residues of the interface of two CD154 monomers as well as residues involved in mutations associated with Hyper-IgM syndrome (HIGMS). Residue substitutions included

20 changes to alanine, charge-reversal mutations or changes to other residues.

Construction and expression of CD154 mutants has been described previously (Singh, J. et al. (1998), Protein Sci 7, 1124-35, the disclosure of which is hereby incorporated by reference). Briefly, mutants of human CD154 were made by unique site elimination mutagenesis using a Pharmacia kit (Pharmacia, N.J.). COS cells were transfected with an expression vector containing the mutant gene and an SV40 origin site for amplification. Transfected cells were metabolically labeled and harvested. Cell lysates were pre-cleared with protein A sepharose beads and anti-CD154 monoclonal antibodies. Immune complexes collected on

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beads were washed and subjected to SDS electrophoresis. Immunoprecipitation of each mutant human CD154 protein was compared to that of wild-type human CD154 protein.

Mutated full-length CD154 was transiently 5 expressed in its full-length membrane-bound form. Expression of mutant CD154s was confirmed with immunoprecipitation of detergent extracts from metabolically labeled cells with polyclonal antibodies directed against synthetic peptides from the N and 10 C-termini of CD154 (Singh, J. et al. (1998), Protein <u>Sci</u> 7, 1124-35 and Garber, E. et al. (1999), <u>J Biol</u> Chem 274, 33545-50). 5c8 mAb binding to CD154 mutants was assessed by assaying the ability of CD154 mutants from detergent extracts to be immunoprecipitated by 5c8 15 Similarly, CD40 binding to CD154 mutants was assessed by immunoprecipitation with CD40-Fc. CD40-Fc is a fusion protein of the extracellular domain of CD40 and a human IgG Fc fragment (Hsu et al. (1997) J. Biol. Chem., 272: 911-915, the disclosure of which is hereby 20 incorporated by reference). Table 2 summarizes data

for 23 single residue mutations of human CD154.

Table 2: Summary of mutagenesis data*

	<u>Mutation</u>	5c8 mAb	CD40-Fc	Type
	A123E	_	_	HIGMS
	V126A	-	_	HIGMS
5	S128R	_	-	HIGMS (S128R/E129G)
	E129G	-	~	HIGMS (S128R/E129G)
	K133A	+	+	surface charge
	W140G	_	-	HIGMS
	E142K	+	+	murine residue
10	K143A	+/-	+/-	surface charge
	G144E	+		HIGMS
	Y145A	+/-	_	surface residue
	L155P		-	HIGMS
	Y170C	- .	-	HIGMS
15	R203A	+ .	+/-	surface charge
	I204A	+	+	monomer interface
	R207A	+	+/-	surface charge
	T211D	+	+	HIGMS
	G227V	-	_	HIGMS
20	A235P	-	-	HIGMS
	H249A	-	-	surface charge
	T251A	+	+	monomer interface
	T254M	-	_	HIGMS
	F253A	_		monomer interface
25	G257S	-	-	HIGMS
	K216	+		

^{(*) &}quot;+, +/-, - " symbols indicate immunoprecipitation
levels in comparison to WT: "+" comparable signal;
"+/-" reduced but detectable signal; "-" undetectable
30 signal.

The effects for some of these mutations were previously described in the context of the crystal structure of CD154 and homology model of CD40 (Singh, J. et al. (1998), Protein Sci 7, 1124-35 and Garber, E. et al. (1999), J Biol Chem 274, 33545-50). Here, the effects of these and additional mutations on 5c8 mAb binding were interpreted in the context of the crystal structure of CD154-5c8 mAb Fab.

Mutation of surface residues of CD154 had an 10 effect on immunoprecipitation that, in general, correlated with the location of the antigenic epitope of 5c8 mAb as determined from the crystal structure (Table 2 and Figure 11). The complete loss of immunoprecipitation due to mutation H249A suggests that 15 surface residue H249 may play important role in the energetics of the CD154-5c8 mAb interaction. conclusion relies on the observation that the CD154hu5c8 mAb Fab interaction surface in the co-crystal structure described in **Example 1** (as well as the 20 CD154-CD40 interaction surface) was very extensive and therefore the loss of single residue side chains in most cases is not likely to result in complete loss of the interaction between CD154 and 5c8 mAb. The crystal structure showed that residue H249 lies in the middle 25 of the epitope and interacts with Y33(H) of 5c8 mAb (Example 1). Mutation of residue E129 to glycine also resulted in complete loss of immunoprecipitation. residue was observed to interact with N103(H) of hu5c8 mAb Fab and its substitution with glycine resulted in 30 loss of this interaction. As discussed further below, mutation E129G also resulted in structural perturbations that may contribute to the loss of immunoprecipitation. The substitution of other surface

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residues, such as K143, had a more intermediate effect. Of interest is surface residue Y145, which was not observed to form direct interactions with 5c8 mAb. However, mutation Y145A had a intermediate effect on immunoprecipitation with 5c8 mAb. The OH group of the side chain of Y145 was shown to interact with the carbonyl oxygen of E230 of the adjacent CD154 monomer in the co-crystal structure described in Example 1. This suggests that the residue may also play a structure-stabilizing role that could explain the observed effect in immunoprecipitation.

10

Most of the HIGMS mutations resulted in complete loss of ability of CD154 to be immunoprecipitated by 5c8 mAb (Garber, E. et al. (1999) 15 J Biol Chem 274, 33545-50 and Bajorath, J., et al.(1995), Biochemistry 34, 1833-44). Inspection of the co-crystal structure showed that most of the HIGMS mutations involve residues that are not directly involved in 5c8 mAb interactions and are more likely to 20 play a structural role. For example, residues A123, V126, W140, L155, Y170, A235, T254, G257 are buried residues and are likely to be important for protein folding and stability. Consistent with that view, all Hyper-IgM mutations that affected 5c8 mAb binding also affected CD40-Fc binding. It appears that most HIGMS 25 mutations affect the structure locally, since it has been shown that these mutations do not cause an alteration in structure that is sufficient to completely prevent homotrimerization (Garber, E. et al. 30 (1999) <u>J Biol Chem</u> 274, 33545-50). Interestingly, most of the residues involved in known HIGMS mutations form a cluster buried underneath the surface area of the 5c8 mAb epitope on CD154 (Figure 11). This fact makes it

more likely that the structural perturbations induced by the mutations propagate to the surface area of the epitope and result in loss of 5c8 mAb binding.

HIGMS double mutation S128R/E129G and single 5 mutation T211D are the only HIGMS mutations that involve essentially exposed surface residues. To dissect the contribution of each mutated residue of HIGMS mutation S128R/E129G, single mutants S128R and E129G were generated in addition to the double mutant The double mutation S128R/E129G and the 10 protein. single mutations S128R and E129G resulted in complete loss of 5c8 mAb and CD40-Fc binding (Table 2). Inspection of the crystal structure showed that residue S128 does not interact at all with 5c8 mAb, however it stabilizes essential residue H249 which interacts with 15 Y33(H) of 5c8 mAb. Its substitution with arginine may disrupt this interaction and the introduction of the positive charge may alter the local electrostatic potential. The other residue involved in the mutation, 20 E129, was observed to interact with N103(H) of 5c8 mAb and also stabilizes the conformation of K143 of CD154which interacts with N103(H) of 5c8 mAb (Figures 10 and 11). Its substitution with glycine resulted in loss of these interactions. Previous studies have also shown 25 that while mutant E129G binds weakly to CD40-Fc, mutant E129A binds like wild-type to CD40-Fc (Bajorath, J., et al.(1995), Biochemistry 34, 1833-44). This suggested that the substitution to glycine introduces additional flexibility to the loop and may perturb the structure of CD154. Thus the effect of the E129G mutation on 5c8 30 mAb binding is a combination of loss of interactions and local perturbation of the structure which may result in loss of additional interactions.

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mutant behaved like wild-type in terms of 5c8 mAb and CD40-Fc binding and it has been concluded that the mutation is a result of polymorphism of the CD154 gene (Garber, E. et al. (1999) <u>J Biol Chem</u> 274, 33545-50). This residue is surface-exposed and lies near the top of the pyramid, away from the epitope (Figure 11). Previous crystallographic analysis has confirmed that the T211D mutant protein folds like wild-type (Garber, E. et al. (1999) <u>J Biol Chem</u> 274, 33545-50).

10 Equivalents

The invention may be embodied in other specific forms without departing from the spirit or essential characteristics thereof. The foregoing embodiments are therefore to be considered in all respects illustrative of, rather than limiting on, the invention disclosed herein. All changes which come within the meaning and range of equivalency of the claims are intended to be embraced therein.

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CLAIMS

We claim:

- A crystallizable composition comprising a CD154 polypeptide complexed with an anti CD154 antibody or an antigen binding fragment of said antibody.
 - 2. The crystallizable composition according to claim 1, wherein said anti-CD154 antibody is a monoclonal antibody.
- 3. The crystallizable composition according to claim 1, wherein said CD154 polypeptide is a polypeptide comprising the extra-cellular domain of CD154.
- 4. The crystallizable composition
 15 according to claim 1, wherein said CD154 polypeptide comprises a polypeptide consisting of amino acid 116 to amino acid 261 of CD154.
- 5. The crystallizable composition according to claim 1, wherein said anti-CD154 antibody is a monoclonal antibody which specifically binds the .5c8 antigen, which is specifically bound by monoclonal antibody 5c8 (produced by the hybridoma having ATCC Accession No. HB 10916).
- 25 6. The crystallizable composition according to claim 1, wherein said fragment is a Fab fragment.

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- 7. The crystallizable composition according to claim 6, wherein said Fab fragment is a Fab fragment of monoclonal antibody 5c8 (produced by the hybridoma having ATCC Accession No. HB 10916), or of humanized 5c8 mAb.
- 8. A crystallizable composition comprising a trimer of CD154 polypeptides and three anti-CD154 monoclonal antibodies, or antigen binding fragments thereof, wherein each of said polypeptides comprises the extra-cellular domain of CD154.

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- 9. A crystal comprising a CD154 polypeptide complexed with an anti-CD154 antibody, or an antigen binding fragment thereof.
- 10. The crystal according to claim 9, wherein said CD154 polypeptide comprises the extracellular domain of CD154 polypeptide.
- 11. The crystal according to claim 9, wherein said CD154 polypeptide comprises a polypeptide consisting of amino acid 116 to amino acid 261 of CD154.
 - 12. The crystal according to claim 9, wherein said anti-CD154 antibody is a monoclonal antibody.
- 25
 13. The crystal according to claim 9, wherein said anti-CD154 antibody is a monoclonal antibody which specifically binds the 5c8 antigen, which is specifically bound by monoclonal antibody 5c8

(produced by the hybridoma having ATCC Accession No. ${\tt HB}$ 10916).

- 14. The crystal according to claim 9, wherein said fragment is a Fab fragment.
- 5 15. The crystal according to claim 14, wherein said Fab fragment is a Fab fragment of monoclonal antibody 5c8 (produced by the hybridoma having ATCC Accession No. HB 10916) or of humanized 5c8 monoclonal antibody.
- 16. A crystal comprising a trimer of CD154 polypeptides and three anti-CD154 antibodies, or antigen binding fragments thereof, wherein each of said polypeptides comprises the extra-cellular domain of CD154.
- 15 17. A computer for producing a three-dimensional representation of:
 - a) a molecular complex comprising a first binding site defined by structure coordinates of CD154 amino acids Glu129, Ala130, Ser132, Glu142, Lys143,
- 20 Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248, His249 and Gly250 according to Figure 4; or

25

- b) a homologue of said molecular complex, wherein said homologue comprises a second binding site that has a root mean square deviation from the backbone atoms of said amino acids between 0.00Å and 1.50Å; wherein said computer comprises:
 - (i) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises the

structure coordinates of CD154 amino acids Glu129, Ala130, Ser132, Glu142, Lys143, Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248, His249 and Gly250 according to Figure 4; and

- 5 (ii) instructions for processing said machine-readable data into said three-dimensional representation.
- 18. The computer for producing a three-dimensional representation according to claim 17,

 10 wherein said homologue comprises a second binding site that has a root mean square deviation from the backbone atoms of said amino acids of between 0.00Å and 1.00Å.
- 19. The computer for producing a three-dimensional representation according to claim 17,

 15 wherein said homologue comprises a second binding site that has a root mean square deviation from the backbone atoms of said amino acids of between 0.00Å and 0.50Å.
- 20. The computer according to any one of claims 17-19, wherein said first binding site is a 20 binding site for 5c8 mAb (produced by the hybridoma having ATCC Accession No. HB 10916), or an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.
- 21. The computer according to any one of claims 17-19, wherein said second binding site is a binding site for 5c8 mAb (produced by the hybridoma having ATCC Accession No. HB 10916), or an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.

- 22. A computer for producing a threedimensional representation of:
- a molecular complex comprising a first a) binding site, defined by structure coordinates of CD154 5 amino acids Glu129, Ala130, Ser132, Glu142, Lys143, Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248, His249 and Gly250 according to Figure 4, that associates with one or more anti-CD154 antibody amino acids Ser31, Tyr32, Tyr33, Asn52, Ser54, Asp57, Asn59, 10 Arg102, Asn103 of the heavy chain and amino acids
- Ser31, Ser32, Tyr36, Ser95 and Trp96 of the light chain according to Figure 4; or
 - a homologue of said molecular complex, b) wherein said homologue comprises a second binding site that has a root mean square deviation from the backbone atoms of said CD154 amino acids and said one or more anti-CD154 amino acids between 0.00Å and 1.50Å; wherein said computer comprises:
- (i) a machine-readable data storage medium comprising a data storage material encoded with 20 machine-readable data, wherein said data comprises the structure coordinates of CD154 amino acids Glu129, Ala130, Ser132, Glu142, Lys143, Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248, His249 and Gly250
- according to Figure 4 and the structure coordinates of 25 one or more anti-CD154 antibody amino acids Ser31, Tyr32, Tyr33, Asn52, Ser54, Asp57, Asn59, Arg102, Asn103 of the heavy chain and amino acids Ser31, Ser32, Tyr36, Ser95 and Trp96 of the light chain according to 30 Figure 4; and

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- (ii) instructions for processing said machine-readable data into said three-dimensional representation.
- 23. The computer for producing a three5 dimensional representation according to claim 22,
 wherein said homologue comprises a second binding site
 that has a root mean square deviation from the backbone
 atoms of said CD154 amino acids of between 0.00Å and
 1.00Å.
- 10 24. The computer for producing a three-dimensional representation according to claim 22, wherein said homologue comprises a second binding site that has a root mean square deviation from the backbone atoms of said CD154 amino acids of between 0.00Å and 0.50Å.
- 25. The computer according to any one of claims 22-24, wherein said first binding site is a binding site for 5c8 mAb (produced by the hybridoma having ATCC Accession No. HB 10916), or an antigen 20 binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.
- 26. The computer according to any one of claims 22-24, wherein said second binding site is a binding site for 5c8 mAb (produced by the hybridoma having ATCC Accession No. HB 10916), or an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.

- 27. A computer for producing a threedimensional representation of:
- a) a molecular complex defined by structure coordinates of one or more anti-CD154

 5 antibody amino acids Ser31, Tyr32, Tyr33, Asn52, Ser54, Asp57, Asn59, Arg102, Asn103 of the heavy chain and amino acids Ser31, Ser32, Tyr36, Ser95 and Trp96 of the light chain according to Figure 4; or
- b) a homologue of said molecular complex,

 wherein said homologue has a root mean square deviation
 from the backbone atoms of said amino acids between

 0.00Å and 1.50Å;

 wherein said computer comprises:

(i) a machine-readable data storage 15. medium comprising a data storage material encoded with machine-readable data, wherein said data comprises the structure coordinates of anti-CD154 antibody amino acids Ser31, Tyr32, Tyr33, Asn52, Ser54, Asp57, Asn59, Arg102, Asn103 of the heavy chain and amino acids

20 Ser31, Ser32, Tyr36, Ser95 and Trp96 of the light chain according to Figure 4; and

(ii) instructions for processing said
machine-readable data into said three-dimensional
representation.

- 28. The computer for producing a three-dimensional representation according to claim 27, wherein said homologue has a root mean square deviation from the backbone atoms of said amino acids of between 0.00Å and 1.00Å.
- 30 29. The computer for producing a threedimensional representation according to claim 27,

wherein said homologue has a root mean square deviation from the backbone atoms of said amino acids of between 0.00Å and 0.50Å.

- 30. A computer for producing a three-5 dimensional representation of:
 - a) a molecular complex defined by at least a portion of the structure coordinates of all the CD154 and anti-CD154 antibody amino acids set forth in Figure 4, or
- b) a homologue of said molecular complex, wherein said homologue has a root mean square deviation from the backbone atoms of said amino acids between 0.00Å than 1.50Å; and wherein said computer comprises:
- 15 (i) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises at least a portion of the structure coordinates of all of the CD154 and anti-CD154 antibody amino acids set forth 20 in Figure 4; and
 - (ii) instructions for processing said
 machine-readable data into said three-dimensional
 representation.
- 31. The computer for producing a three25 dimensional representation according to claim 30,
 wherein said homologue has a root mean square deviation
 from the backbone atoms of said amino acids of between
 0.00Å and 1.00Å.

!

32. The computer for producing a three-30 dimensional representation according to claim 30,

wherein said homologue has a root mean square deviation from the backbone atoms of said amino acids of between 0.00Å and 0.50Å.

- 33. A computer for determining at least a portion of the structure coordinates corresponding to X-ray diffraction data obtained from a molecular complex, wherein said computer comprises:
 - a) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises at least a portion of the structure coordinates of CD154 or anti-CD154 antibody according to Figure 4;

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- b) a machine-readable data storage medium comprising a data storage material encoded with

 15 machine-readable data, wherein said data comprises X-ray diffraction data obtained from said molecular complex; and
- c) instructions for performing a Fourier transform of the machine readable data of (a) and for processing said machine readable data of (b) into structure coordinates.
 - 34. The computer according to any one of claims 17-19, 22-24 or 27-33, further comprising a display for displaying said structure coordinates.
- 25 35. The computer according to claim 20, further comprising a display for displaying said structure coordinates.

- 36. The computer according to claim 21, further comprising a display for displaying said structure coordinates.
- 37. The computer according to claim 25,5 further comprising a display for displaying said structure coordinates.
 - 38. The computer according to claim 26, further comprising a display for displaying said structure coordinates.
- 10 39. A method for evaluating the potential of a chemical entity to associate with:
 - a) a molecular complex comprising a first binding site defined by structure coordinates of CD154 amino acids Glu129, Ala130, Ser132, Glu142, Lys143,
- 15 Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248, His249 and Gly250 according to Figure 4; or
 - b) a homologue of said molecular complex, wherein said homologue comprises a second binding site that has a root mean square deviation from the backbone atoms of said amino acids between 0.00Å and 1.50Å; comprising the steps of:
 - (i) employing computational means to perform a fitting operation between the chemical entity and said first binding site of the molecular complex or
- 25 said second binding site of said homologue of said
 molecular complex; and

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(ii) analyzing the results of said fitting operation to quantify the association between the chemical entity and said first binding site or said second binding site.

- 40. The method according to claim 39, wherein said homologue comprises a second binding site that has a root mean square deviation from the backbone atoms of said amino acids of between 0.00Å and 1.00Å.
- 5 41. The method according to claim 39, wherein said homologue has a second binding site that has a root mean square deviation from the backbone atoms of said amino acids of between 0.00Å and 0.50Å.
- 42. The method according to any one of claims 39-41, wherein said first binding site is a binding site for 5c8 mAb (produced by the hybridoma having ATCC Accession No. HB 10916), or an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.
- 15 43. The method according to any one of claims 39-41, wherein said second binding site is a binding site for 5c8 mAb (produced by the hybridoma having ATCC Accession No. HB 10916), or an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.
 - 44. A method for evaluating the potential of a chemical entity to associate with:
- a) a molecular complex comprising a first binding site, defined by structure coordinates of CD154 25 amino acids Glu129, Ala130, Ser132, Glu142, Lys143, Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248, His249 and Gly250 according to Figure 4, that associates with one or more anti-CD154 antibody amino acids Ser31, Tyr32, Tyr33, Asn52, Ser54, Asp57, Asn59,

Arg102, Asn103 of the heavy chain and amino acids Ser31, Ser32, Tyr36, Ser95 and Trp96 of the light chain according to Figure 4; or

b) a homologue of said molecular complex, wherein said homologue comprises a second binding site that has a root mean square deviation from the backbone atoms of said CD154 amino acids between 0.00Å and 1.50Å;

comprising the steps of:

- (i) employing computational means to perform a fitting operation between the chemical entity and said first binding site or said second binding site; and
- (ii) analyzing the results of said 15 fitting operation to quantify the association between the chemical entity and said first binding site or said second binding site.
- 45. The method according to claim 44, wherein said homologue comprises a second binding site 20 that has a root mean square deviation from the backbone atoms of said CD154 amino acids of between 0.00Å and 1.00Å.
- 46. The method according to claim 44, wherein said homologue comprises a second binding site 25 that has a root mean square deviation from the backbone atoms of said CD154 amino acids of between 0.00Å and 0.50Å.
- 47. The method according to any one of claims 44-46, wherein said first binding site is a binding site for 5c8 mAb (produced by the hybridoma

having ATCC Accession No. HB 10916), or an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.

- 48. The method according to any one of claims 44-46, wherein said second binding site is a binding site for 5c8 mAb (produced by the hybridoma having ATCC Accession No. HB 10916), or an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.
- 10 49. A method for evaluating the potential of a chemical entity to associate with:
 - a) a molecular complex defined by at least a portion of the structure coordinates of all the CD154 and anti-CD154 antibody amino acids, as set forth in Figure 4; or
 - b) a homologue of said molecular complex having a root mean square deviation from the backbone atoms of said amino acids between 0.00Å and 1.50Å;
- 20 comprising the steps of:

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- (i) employing computational means to perform a fitting operation between the chemical entity and a first binding site of said molecular complex or a second binding site of said homologue of said molecular complex; and
- (ii) analyzing the results of said fitting operation to quantify the association between the chemical entity and said first binding site or said second binding site.

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- 50. The method according to claim 49, wherein said homologue has a root mean square deviation from the backbone atoms of said amino acids between 0.00Å and 1.00Å.
- 5 51. The method according to claim 49, wherein said homologue has a root mean square deviation from the backbone atoms of said amino acids between 0.00Å and 0.50Å.
- 52. The method according to any one of claims 49-51, wherein said first binding site is a binding site for 5c8 mAb (produced by the hybridoma having ATCC Accession No. HB 10916), or an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.
- 15 53. The method according to any one of claims 49-51, wherein said second binding site is a binding site for 5c8 mAb (produced by the hybridoma having ATCC Accession No. HB 10916), or an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.
 - 54. A chemical entity identified by the method according to any one of claims 39-53.
 - 55. A compound assembled from one or more chemical entities according to claim 54.
- 25 56. A method for identifying a potential agonist or antagonist of CD154 comprising the steps of:

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- a) using the structure coordinates of CD154 amino acids Glu129, Ala130, Ser132, Glu142, Lys143, Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248, His249 and Gly250 according to Figure 4 ± a root mean square deviation from the backbone atoms of said amino acids between 0.00Å and 1.50Å, to generate a three-dimensional structure of a molecular complex comprising a binding site;
- b) employing said three-dimensionalstructure to design or select said potential agonist or antagonist;
 - c) synthesizing said potential agonist or antagonist; and
- d) contacting said potential agonist or 15 antagonist with CD154 to determine the ability of said potential agonist or antagonist to bind to CD154.
- 57. The method according to claim 56, wherein said root mean square deviation from the backbone atoms of said amino acids is between 0.00Å and 1.00Å.
 - 58. The method according to claim 56, wherein said root mean square deviation from the backbone atoms of said amino acids is between 0.00Å and 0.50Å.
- 25 59. The method according to any one of claims 56-58, wherein said binding site is a binding site for 5c8 mAb (produced by the hybridoma having ATCC Accession No. HB 10916), or an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding 30 fragment thereof.

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- 60. A method for identifying a potential agonist or antagonist of CD154 comprising the steps of:
- a) using the structure coordinates of CD154 amino acids Glu129, Ala130, Ser132, Glu142, Lys143, Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248, His249 and Gly250 according to Figure 4, wherein said CD154 amino acids associate with one or more anti-CD154 antibody amino acids Ser31, Tyr32,
- 10 Tyr33, Asn52, Ser54, Asp57, Asn59, Arg102, Asn103 of the heavy chain and amino acids Ser31, Ser32, Tyr36, Ser95 and Trp96 of the light chain according to Figure 4 ± a root mean square deviation from the backbone atoms of said CD154 amino acids between 0.00Å and
- 15 1.50Å, to generate a three-dimensional structure of a molecular complex comprising a binding site;
 - b) employing said three-dimensional structure to design or select said potential agonist or antagonist;
- 20 c) synthesizing said potential agonist or antagonist; and
 - d) contacting said potential agonist or antagonist with CD154 to determine the ability of said potential agonist or antagonist to bind to CD154.
- 25 61. The method according to claim 60, wherein said root mean square deviation from the backbone atoms of said CD154 amino acids is between 0.00Å and 1.00Å.
- 62. The method according to claim 60, 30 wherein said root mean square deviation from the

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backbone atoms of said CD154 amino acids is between 0.00Å and 0.50Å.

- 63. The method according to any one of claims 60-62, wherein said binding site is a binding 5 site for 5c8 mAb (produced by the hybridoma having ATCC Accession No. HB 10916), or a variant of an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.
- 64. A method for identifying a potential 10 agonist or antagonist of CD154 comprising the steps of:
- a) using at least a portion of the .

 structure coordinates of all the amino acids of CD154
 and anti-CD154 antibody according to Figure 4 ± a root
 mean square deviation from the backbone atoms of said

 CD154 amino acids between 0.00Å and 1.50Å, to generate
 a three-dimensional structure of a molecular complex
 comprising a binding site;
- b) employing said three-dimensional structure to design or select said potential agonist or
 20 antagonist;
 - c) synthesizing said potential agonist or antagonist; and
- d) contacting said potential agonist or antagonist with CD154 to determine the ability of said
 25 potential agonist or antagonist to bind to CD154.
 - 65. The method according to claim 64, wherein said root mean square deviation from the backbone atoms of said amino acids is between 0.00Å and 1.00Å.

- 66. The method according to claim 64, wherein said root mean square deviation from the backbone atoms of said amino acids is between 0.00Å and 0.50Å.
- 5 67. The method according to any one of claims 64-66, wherein said binding site is a binding site for 5c8 mAb (produced by the hybridoma having ATCC Accession No. HB 10916), or a variant of an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.
 - 68. The method according to any one of claims 56-58, 60-62 or 64-66, further comprising the step of:
- (e) determining whether said potential antagonist interrupts CD40:CD154 interaction.
 - 69. The method according to claim 59, further comprising the step of:
 - (e) determining whether said potential antagonist interrupts CD40:CD154 interaction.
- 70. The method according to claim 63, further comprising the step of:
 - (e) determining whether said potential antagonist interrupts CD40:CD154 interaction.
- 71. The method according to claim 67, 25 further comprising the step of:
 - (e) determining whether said potential antagonist interrupts CD40:CD154 interaction.

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72. A potential agonist or antagonist of CD154 identified by the method according to any one of claims 57-71.

- 73. A method for evaluating the potential of a variant of monoclonal antibody 5c8, or a variant of an antigen binding fragment thereof, or a variant of humanized 5c8 mAb, or a variant of an antigen binding fragment thereof, to associate with:
- a) a molecular complex comprising a first

 10 binding site defined by structure coordinates of CD154

 amino acids Glu129, Ala130, Ser132, Glu142, Lys143,

 Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248,

 His249 and Gly250 according to Figure 4; or
- b) a homologue of said molecular complex,

 wherein said homologue comprises a second binding site
 that has a root mean square deviation from the backbone
 atoms of said amino acids between 0.00Å and 1.50Å;

 comprising the steps of:
- (i) employing computational means to 20 perform a fitting operation between the variant and said first binding site or said second binding site; and
- (ii) analyzing the results of said fitting operation to quantify the association between25 the variant and said first binding site or said second binding site.
- 74. The method according to claim 73, wherein said homologue has a root mean square deviation from the backbone atoms of said amino acids of between 30 0.00Å and 1.00Å.

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- 75. The method according to claim 73, wherein said homologue has a root mean square deviation from the backbone atoms of said amino acids of between 0.00Å and 0.50Å.
- 76. The method according to any one of claims 73-75, wherein said first binding site is a binding site for 5c8 mAb (produced by the hybridoma having ATCC Accession No. HB 10916), or an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.
- 77. The method according to any one of claims 73-75, wherein said second binding site is a binding site for 5c8 mAb (produced by the hybridoma having ATCC Accession No. HB 10916), or an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.
 - 78. A method for evaluating the potential of a variant of monoclonal antibody 5c8, or a variant of an antigen binding fragment thereof, or a variant of humanized 5c8 mAb, or a variant of an antigen binding fragment thereof, to associate with:

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a) a molecular complex comprising a first binding site, defined by structure coordinates of CD154 amino acids Glu129, Ala130, Ser132, Glu142, Lys143, Gly144, Tyr146, Cys178, Cys218, Ser245, Gln246, Ser248, His249 and Gly250 according to Figure 4, that associates with one or more anti-CD154 antibody amino acids Ser31, Tyr32, Tyr33, Asn52, Ser54, Asp57, Asn59, Arg102, Asn103 of the heavy chain and amino acids

Ser31, Ser32, Tyr36, Ser95 and Trp96 of the light chain according to Figure 4; or

b) a homologue of said molecular complex, wherein said homologue comprises a second binding site that has a root mean square deviation from the backbone atoms of said CD154 amino acids between 0.00Å and 1.50Å;

comprising the steps of:

- (i) employing computational means to perform a fitting operation between the variant and said first binding site or said second binding site; and
- (ii) analyzing the results of said fitting operation to quantify the association between15 the variant and said first binding site or said second binding site.
- 79. The method according to claim 78, wherein said homologue has a root mean square deviation from the backbone atoms of said CD154 amino acids of between 0.00Å and 1.00Å.
 - 80. The method according to claim 78, wherein said homologue has a root mean square deviation from the backbone atoms of said CD154 amino acids of between 0.00Å and 0.50Å.
- 25 81. The method according to any one of claims 78-80, wherein said first binding site is a binding site for 5c8 mAb (produced by the hybridoma having ATCC Accession No. HB 10916), or an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.

- 82. The method according to any one of claims 78-80, wherein said second binding site is a binding site for 5c8 mAb (produced by the hybridoma having ATCC Accession No. HB 10916), or an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.
- 83. A method for evaluating the potential of a variant of monoclonal antibody 5c8, or a variant of an antigen binding fragment thereof, or a variant of humanized 5c8 mAb, or a variant of an antigen binding fragment thereof, to associate with:
- a) a molecular complex defined by at least a portion of the structure coordinates of all the CD154 and anti-CD154 antibody amino acids, as set forth in Figure 4; or
- b) a homologue of said molecular complex having a root mean square deviation from the backbone atoms of said amino acids between 0.00Å and 1.50Å;
- 20 comprising the steps of:

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- (i) employing computational means to perform a fitting operation between the variant and a first binding site of the molecular complex or a second binding site of the homologue of the molecular complex; and
- (ii) analyzing the results of said fitting operation to quantify the association between the variant and said first binding site or said second binding site.
- 30 84. The method according to claim 83, wherein said homologue has a root mean square deviation

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from the backbone atoms of said amino acids of between 0.00\AA and 1.00\AA .

- 85. The method according to claim 83, wherein said homologue has a root mean square deviation from the backbone atoms of said amino acids of between 0.00Å and 0.50Å.
- 86. The method according to any one of claims 83-85, wherein said first binding site is a binding site for 5c8 mAb (produced by the hybridoma 10 having ATCC Accession No. HB 10916), or an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.
 - 87. The method according to any one of claims 83-85, wherein said second binding site is a binding site for 5c8 mAb (produced by the hybridoma having ATCC Accession No. HB 10916), or an antigen binding fragment thereof, or humanized 5c8 mAb, or an antigen binding fragment thereof.
- 88. A variant of monoclonal antibody 5c8 20 or a variant of humanized 5c8 mAb, or a variant of an antigen binding fragment thereof, identified by the method according to any one of claims 73-87.
- 89. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a variant of monoclonal antibody 5c8 or a variant humanized 5c8 mAb, or a variant of an antigen binding fragment thereof, according to claim 88, a potential agonist or antagonist of CD154 according to claim 72, a

chemical entity according to claim 54 or a compound according to claim 55.

- 90. A method of treating a condition associated with inappropriate CD154 induced activation in a subject, comprising the step of administering an effective amount of a pharmaceutical composition according to claim 89 to the subject.
- 91. A method of attenuating severity of a condition associated with inappropriate CD154 mediated activation in a subject, comprising the step of administering an effective amount of a pharmaceutical composition according to claim 89 to the subject.
 - 92. A method of suppressing effects of a condition associated with inappropriate CD154 mediated activation in a subject, comprising the step of administering an effective amount of a pharmaceutical composition according to claim 89 to the subject.

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- 93. A method of preventing development of a condition associated with inappropriate CD154

 20 mediated activation in a subject, comprising the step of administering an effective amount of a pharmaceutical composition according to claim 89 to the subject.
- 94. A method of delaying onset of a
 25 condition associated with inappropriate CD154 mediated activation in a subject, comprising the step of administering an effective amount of a pharmaceutical composition according to claim 89 to the subject.

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- 95. A method of inhibiting a condition associated with inappropriate CD154 mediated activation in a subject, comprising the step of administering an effective amount of a pharmaceutical composition 5 according to claim 89 to the subject.
- 96. A method of reversing a condition associated with inappropriate CD154 mediated activation in a subject, comprising the step of administering an effective amount of a pharmaceutical composition according to claim 89 to the subject.
- 97. A method of treating a condition associated with inappropriate CD154 mediated activation in a subject, comprising the step of administering an effective amount of a pharmaceutical composition according to claim 89 to the subject.
- 98. A method of preventing a condition associated with inappropriate CD154 mediated activation in a subject, comprising the step of administering an effective amount of a pharmaceutical composition according to claim 89 to the subject.
 - 99. The method according to any one of claims 88-98, wherein the subject is a primate.
 - 100. The method according claim 99, wherein said primate is a human.
- 25 101. The method according to any one of claims 88-98, wherein the condition is an unwanted immune response.

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- 102. The method according to any one of claims 88-98, wherein the condition is an unwanted inflammatory response.
- 103. The method according to any one of claims 88-98, wherein the condition is an autoimmune disease.
 - 104. The method according to any one of claims 88-98, wherein the condition is an allergy.
- 105. The method according to any one of claims 88-98, wherein the condition is an inhibitor response to a therapeutic agent.
 - 106. The method according to any one of claims 88-98, wherein the condition is rejection of a donor organ.
- 15 107. The method according to any one of claims 88-98, wherein the condition is a B cell cancer.
- 108. The method according to any one of claims 88-98, wherein the condition is selected from the group consisting of: systemic lupus erythematosis, 20 lupus nephritis, lupus neuritis, asthma, chronic obstructive pulmonary disease, bronchitis, emphysema, multiple sclerosis, uveitis, Alzheimer's disease, traumatic spinal cord injury, stroke, atherosclerosis, coronary restenosis, ischemic congestive heart failure, 25 cirrhosis, hepatitis C, diabetic nephropathy, glomerulonephritis, osteoarthritis, rheumatoid arthritis, psoriasis, atopic dermatitis, systemic

sclerosis, radiation-induced fibrosis, Crohn's disease, ulcerative colitis, multiple myeloma and cachexia.

- 109. A computer for determining at least a portion of the structure coordinates corresponding to
 5 an X-ray diffraction pattern of a molecular complex, wherein said computer comprises:
- a) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises at least a portion of the structure coordinates according to Figure 4;
 - b) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises an
- 15 X-ray diffraction pattern of said molecular complex;
 - c) a working memory for storing instructions for processing said machine-readable data of a) and b);
- d) a central processing unit coupled to
 20 said working memory and to said machine-readable data
 of a) and b) for performing a Fourier transform of the
 machine readable data of (a) and for processing said
 machine readable data of (b) into structure
 coordinates; and
- e) a display coupled to said central processing unit for displaying said structure coordinates of said molecular complex.

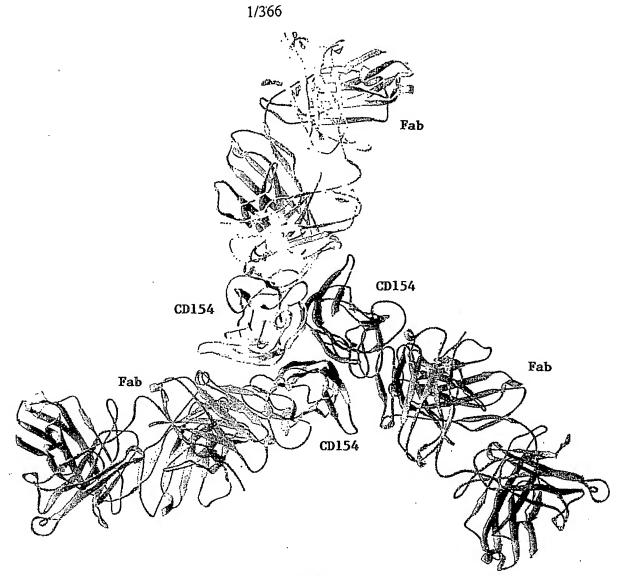


Figure 1

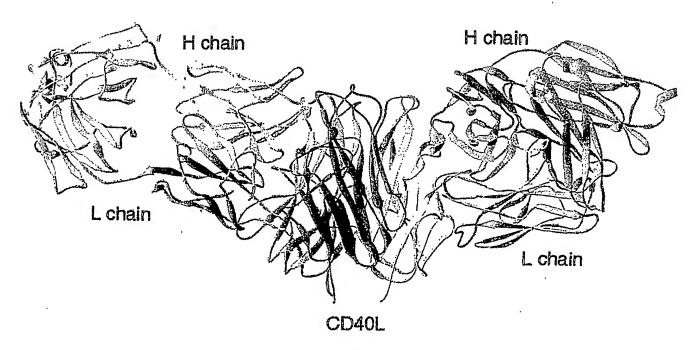


Figure 2

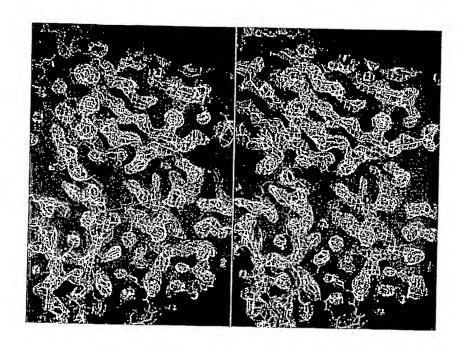


Figure 3

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FIG. 4

REMARK	1 (OMPL	EX OF CD40L	EXTRACELLUL	AR DOMAI	N AND 5C	8 FAB	FRAGMENT
ATOM	1	N	ASN A 119	69.488	3.245	-10.667	0.00	34.90
ATOM	2	CA.	ASN A 119	69.765		~10.935		33.44
ATOM	3	c.	ASN A 119	69.139	5.608	-9.885		27.98
MOTA	Ą	ō	ASN A 119	69.816	6.476	-9.338		29.05
ATOM	5	CB	ASN A 119	69.258		-12.327		40.49
MOTA	6	CG	ASN A 119	70.217		-13.065		45.80
MOTA	7		ASN A 119	70.032		-13.005		49.45
ATOM	8		ASN A 119	71.248		-13.665		49.45
ATOM	9	N	PRO A 120	67.842	5.424	-9.578		20.78
ATOM	10	CA	PRO A 120	67.184	6.294	-8.570		13.48
MOTA	11	C	PRO A 120	67.510	5.778	-7.192	1.00	7.53
MOTA	12	Ö	PRO A 120	67.191	4.656	-6.829	1.00	7.43
MOTA	13	СВ	PRO A 120	65.694	6.190	-8.892	1.00	5.31
MOTA	14	CG	PRO A 120	65.571	4.777	-9.425		16.14
ATOM	15	CD	PRO A 120	66.929		-10.092		20.53
ATOM	16	N	GLN A 121	68.211	6.558	-6.419	1.00	5.82
MOTA	17	CA	GLN A 121	68.525	6.046	-5.111		14.73
ATOM	18	С	GLN A 121	67.345	6.253	-4.177		14.85
MOTA	19	0	GLN A 121	66.754	7.330	-4.164		20.54
ATOM	20	СВ	GLN A 121'	69.759	6.756	-4.601		22.52
MOTA	21	CG	GLN A 121	70.753	7.016	-5.703		32.45
ATOM	22	CD	GLN A 121	72.056	6.319	-5.433		40.69
ATOM	23	OE1	GLN A 121	72.108	5.088	-5.336		42.74
MOTA	24	NE2	GLN A 121	73.128	7.102	-5.295		48.99
MOTA	25	N	ILE A 122	66.999	5.227	-3.408		11.87
MOTA	26	CA	ILE A 122	65.879	5.327	-2.487	1.00	3.09
MOTA	27	С	ILE A 122	66.441	5.191	-1.111	1.00	2.00
MOTA	28	0	ILE A 122	66.917	4.124	-0.702	1.00	2.83
MOTA	29	CB	ILE A 122	64.873	4.201	-2.711	1.00	2.00
MOTA	30	CG1	ILE A 122	63.996	4.502	-3.913	1.00	2.00
MOTA	31	CG2	ILE A 122	63.979	4.076	-1.590	1.00	6.81
MOTA	32		ILE A 122	64.178	3.461	-5.031	1.00	2.00
MOTA MOTA	33	И	ALA A 123	66.355	6.274	-0.373	1.00	2.00
ATOM	34 35	CA C	ALA A 123	66.854	6.275	0.977	1.00	4.71
ATOM	36	0	ALA A 123 ALA A 123	66.032 65.323	7.233 8.117	1.840 1.327	1.00	9.72
ATOM	37	СВ	ALA A 123	68.267	6.671	0.987	1.00	7.02 8.11
ATOM	38	N	ALA A 124	66.119	7.076	3.159		10.35
ATOM	39	CA	ALA A 124	65.346	7.955	4.020	1.00	6.45
MOTA	40	C	ALA A 124	65.851	8.014	5.438	1.00	6.53
MOTA	41	0	ALA A 124	65.976	6.988	6.109		10.73
ATOM	42	CB	ALA A 124	63.943	7.526	4.027	1.00	2.56
ATOM	43	N	HIS A 125	66.183	9.215	5.886	1.00	2.00
MOTA	44	CA	HIS A 125	66.616	9.394	7.260	1.00	5.07
MOTA	45	С.	HIS A 125	65.669	10.432	7.789	1.00	6.96
ATOM	46	0	HIS A 125	65.574	11.529	7.228	1.00	2.00
MOTA	47	CB	HIS A 125	68.020	9.934	7.346	1.00	7.95
MOTA	48	CG	HIS A 125	68.584	9.907	8.721	1.00	2.00
ATOM	49		HIS A 125	68.990	8.740	9.322	1.00	2.00
ATOM	50		HIS A 125	68.813	10.888	9.615	1.00	2.00
MOTA	51		HIS A 125	69.441	9.002	10.531	1.00	2.00
MOTA	52		HIS A 125	69.344	10.298	10.737	1.00	2.00
MOTA	53	И	VAL A 126	64.962	10.065	8.863	1.00	9.81
ATOM	54	CA	VAL A 126	63.955	10.924	9:478	1.00	4.44
ATOM	55 56	С	VAL A 126	64.339	11.135	10.904	1.00	2.00
ATOM ATOM	56 57	O CB	VAL A 126	64.921	10.271	11.519	1.00	2.85
MOTA	58		VAL A 126 VAL A 126	62.535	10.256	9.421 7.957	1.00	3.72
		691	AVD V 150	62.054	10.130	1.551	1.00	2.00

MOTA	59	CG2	VAL A	126		62.586	8.836	10.011	1.00	2.00
MOTA	60	N	ILE A			63.958	12.277	11.429	1.00	2.79
ATOM	61	CA								
			ILE A			64.280	12.669	12.782	1.00	2.85
ATOM	62	С	ILE A			63.218	12.356	13.821	1.00	4.56
MOTA	63	0	ILE A	. 127		62.036	12.531	13.579	1.00	10.94
MOTA	64	CB	ILE A	127		64.502	14.141	12.810	1.00	2.59
ATOM	65	CG1	ILE A			65.786	14.475	12.059	1.00	5.48
ATOM	66	CG2								
			ILE A			64.551	14.602	14.221	1.00	
MOTA	67	CD1	ILE A			66.017	13.640	10.816	1.00	2.00
MOTA	68	N	SER A	128		63.643	11.960	15.012	1.00	6.40
ATOM	69	CA	SER A	128		62.701	11.628	16.077	1.00	6.75
MOTA	70	С	SER A	128		61.889	12.874	16.393	1.00	
ATOM	71	0	SER A			62.413	14.002	16.375	1.00	6.76
ATOM	72	СВ	SER A			63.429				
							11.221	17.346	1.00	5.00
ATOM	73	OG	SER A			63.792	12.407	18.035		12.39
ATOM	74	N	GLU A			60.623	12.628	16.750	1.00	20.00
ATOM	75	CA	GLU A	. 129		59.619	13.657	17.099	1.00	19.55
ATOM	76	С	GLU A	129		58.790	13.190	18.304		17.16
ATOM	77	0	GLU A			58.176	12.095	18.268		16.10
ATOM	78	СВ	GLU A							
						58.678	13.905	15.923		19.41
ATOM	79	CG	GLU A			57.835	15.134	16.108		19.83
ATOM	80	CD	GLU A	. 129		58.370	16.349	15.319	1.00	23.85
ATOM	81	OE1	GLU A	. 129		59.535	16.746	15.559		16.34
ATOM	82	OE2	GLU A	. 129		57.626	16.915	14.467		26.13
ATOM	83	N	ALA A			58.821	13.990	19.375		15.08
ATOM	84	CA	ALA A			58.072	13.654			
ATOM								20.586		17.23
	85	C	ALA A			56.609	13.802	20.269		20.56
MOTA	86	0	ALA A			56.260	14.547	19.350	1.00	24.01
ATOM	87	CB	ALA A	. 130		58.464	14.562	21.743	1.00	8.44
ATOM	88	N	SER A	131		55.754	13.106	21.020		26.04
ATOM	89	CA	SER A	131		54.314	13.182	20.761		31.30
ATOM	90	С	SER A			53.409	12.789	21.930		31.90
ATOM	91	Ö	SER A							
						53.612	11.755	22.547		31.48
ATOM	92	CB	SER A			53.965	12.338	19.550		31.45
ATOM	93	OG	SER A			53.090	11.304	19.946		39.93
ATOM	94	N	SER A	. 132		52.404	13.630	22.195	1.00	38.18
ATOM	95	CA	SER A	132		51.440	13.456	23.296		39.71
ATOM	96	С	SER A	132		50.526	12.262	23.061		39.02
MOTA	97	0	SER A			49.932	11.729	23.989		38.59
ATOM	98	CB	SER A			50.581	14.720			
ATOM	99							23.463		37.68
		OG	SER A			50.828	15.652	22.425		40.98
ATOM	100	N	LYS A			50.411	11.855	21.806	1.00	40.36
ATOM	101	CA	LYS A			49.580	10.725	21.435	1.00	42.89
ATOM	102	C	LYS A	133		49.845	9.580	22.364	1.00	44.71
ATOM	103	0	LYS A	133		50.755	9.644	23.197		41.64
ATOM	104	CB	LYS A			49.894	10.290	20.008		46.70
ATOM	105	CG	LYS A			48.848				
ATOM							10.698	18.959		54.07
	106	CD	LYS A			48.141	12.020	19.290		57.74
ATOM	107	CE	LYS A		-	46.892	11.796	20.150		62.86
MOTA	1.08	NZ	LYS A			46.914	12.518	21.477	1.00	63.58
MOTA	109	N	THR A	134		49.055	8.521	22.216		48.56
ATOM	110	CA	THR A			49.241	7.362	23.070		50.83
ATOM	111	С	THR A			49.555	6.107	22.286		49.58
ATOM	112	Ö	THR A							
						48.651	5.459	21.736		50.35
MOTA	113	CB	THR A			48.003	7.084	23.977		52.18
ATOM	114	OG1	THR A			47.264	8.300	24.185	1.00	57.93
ATOM	115	CG2	THR A	134		48.466	6.512	25.336	1.00	49.29
ATOM	116	N	THR A	135		50.845	5.779	22.236		44.34
ATOM	117	CA	THR A			51.294	4.583	21.557		37.12
ATOM	118	C	THR A			52.667	4.346	22.058		37.63
	•	-				J	1.540	~2.000	1.00	21.03

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ATOM	119	0	THR A 135	53.264	5.221	22.684	1.00 40.72
MOTA	120	СВ	THR A 135	51.452	4.784	20.089	1.00 30.75
ATOM	121	OG1	THR A 135	51.709	6.165	19.847	1.00 28.12
ATOM	122	CG2	THR A 135	50.229	4.326	19.353	1.00 30.52
ATOM	123	N	SER A 136	53.165	3.155	21.753	1.00 35.84
		CA	SER A 136	54.520	2.759	22.103	1.00 30.05
MOTA	124		SER A 136	55.312	2.901	20.772	1.00 23.88
MOTA	125	С			2.864	20.736	1.00 26.78
ATOM	126	0	SER A 136	56.547		22.615	1.00 28.19
MOTA	127	CB	SER A 136	54.511	1.310	21.590	1.00 28.44
ATOM	128	OG	SER A 136	54.073	0.440		
MOTA	129	N	VAL A 137	54.574	3.112	19.687	1.00 11.82
MOTA	130	CA	VAL A 137	55.159	3.260	18.368	1.00 4.54
ATOM	131	С	VAL A 137	55.637	4.694	18.254	1.00 4.40
ATOM	132	0	VAL A 137	54.810	5.583	18.359	1.00 2.00
ATOM	133	СВ	VAL A 137	54.107	3.011	17.289	1.00 2.00
ATOM	134		VAL A 137	52.863	3.587	17.707	1.00 12.88
	135		VAL A 137	54.460	3.675	16.026	1.00 2.00
MOTA			LEU A 138	56.948	4.907	17.998	1.00 8.69
ATOM	136	N	LEU A 138	57.549	6.252	17.892	1.00 7.65
ATOM	137	CA		57.225	7.000	16.609	1.00 10.85
ATOM	138	С	LEU A 138				1.00 13.65
MOTA	139	0	LEU A 138	56.936	6.408	15.542	
MOTA	140	CB	LEU A 138	59.078	6.247	18.043	1.00 3.62
ATOM	141	CG	LEU A 138	59.802	5.358	19.065	1.00 13.94
MOTA	142	CD1		61.267	5.236	18.640	1.00 18.01
ATOM	143	CD2	LEU A 138	59.759	5.947	20.487	1.00 4.81
MOTA	144	N	GLN A 139	57.193	8.320	16.776	1.00 12.94
ATOM	145	CA	GLN A 139	56.926	9.288	15.720	1.00 15.17
ATOM	146	С	GLN A 139	58.233	9.735	15.105	1.00 19.13
ATOM	147	Ö	GLN A 139	59.303	9.564	15.711	1.00 23.96
	148	СВ	GLN A 139	56.247	10.524	16.286	1.00 20.42
MOTA		CG	GLN A 139	54.844	10.342	16.901	1.00 24.47
MOTA	149		GLN A 139	53.771	10.268	15.854	1.00 27.41
MOTA	150	CD		53.530	11.228	15.104	1.00 20.97
ATOM	151	OE1			9.110	15.777	1.00 32.62
ATOM	152	NE2		53.121		13.777	1.00 32.52
ATOM	153	N	TRP A 140	58.144	10.335		1.00 17.30
ATOM	154	CA	TRP A 140	59.329	10.779	13.200	1.00 12.74
MOTA	155	С	TRP A 140	58.898	11.922	12.387	
ATOM	156	0	TRP A 140	57.784	11.904	11.901	1.00 16.98
ATOM	157	CB	TRP A 140	59.826	9.694	12.243	1.00 6.47
ATOM	158	CG	TRP A 140	60.063	8.419	12.945	1.00 2.00
ATOM	159	CDI	TRP A 140	59.205	7.396	13.028	1.00 2.00
ATOM	160	CD2	TRP A 140	61.174	8.083	13.785	1.00 2.00
ATOM	161	NE]		59.685	6.441	13.876	1.00 6.28
ATOM	162	CE		60.898	6.835	14.349	1.00 2.00
ATOM	163		3 TRP A 140	62.366	8.721	14.112	1.00 5.56
ATOM	164		TRP A 140	61.774	6.193	15.233	1.00 2.00
	165		3 TRP A 140	63.241	8.088	14.999	1.00 5.83
ATOM			2 TRP A 140	62.932	6.831	15.548	1.00 3.34
ATOM	166			59.800	12.876	12.201	1.00 10.35
ATOM	167	N	ALA A 141		14.070	11.404	1.00 10.29
MOTA	168	CA		59.553		10.261	1.00 10.25
MOTA	169	С	ALA A 141	60.566	14.227		1.00 13.40
MOTA	170	0	ALA A 141	61.729	13.869	10.399	
MOTA	171	CB		59.601	15.284		1.00 5.35
MOTA	172	N	GLU A 142	60.112	14.744	9.127	1.00 7.71
ATOM	173	CA	GLU A 142	60.968	14.992	7.971	1.00 2.00
ATOM	174	С	GLU A 142	61.485	16.422	8.123	1.00 2.00
ATOM	175	ō	GLU A 142	61.182	17.298	7.318	1.00 2.00
ATOM	176	СВ	GLU A 142	60.146	14.887	6.716	1.00 2.00
ATOM	177	CG		60.826	14.275	5.589	
ATOM	178			59.889	14.008	4.414	
ATON	110	CD	ODO N 142	22.003			

ATOM	179	OE1	GLU A	142	59.047	13.076	4.515	1.00 12.09
ATOM	180	OE2	GLU A	142	60.016	14.735	3.386	1.00 17.66
ATOM	181	N	LYS A		62.230	16.656	9.194	1.00 2.00
ATOM	182	CA	LYS A		62.801	17.964	9.442	1.00 2.62
ATOM	183	C	LYS A		64.324	17.904	9.687	1.00 8.24
ATOM	184	0	LYS A		64.960	16.865	9.444	1.00 6.09
ATOM	185	СВ	LYS A		62.139	18.586	10.648	1.00 8.04
ATOM	186	CG	LYS A		62.055	17.625	11.833	1.00 7.85
ATOM	187	CD	LYS A		61.681	18.360	13.115	1.00 5.54
ATOM	188	CE	LYS A		60.198	18.210	13.367	1.00 10.68
MOTA	189	NZ	LYS A		59.640	19.187	14.321	1.00 11.90
		N Z	GLY A		64.893	18.998	10.220	1.00 8.10
ATOM ATOM	190	CA	GLY A		66.327	19.060	10.442	1.00 10.63
	191	CA	GLY A		67.104	18.468	9.260	1.00 15.68
MOTA	192		GLY A		66.605	18.469	8.103	1.00 15.00
ATOM	193	0			68.317	17.951	9.540	1.00 15.89
MOTA	194	N	TYR A		69.190	17.349	8.505	1.00 13.89
ATOM	195	CA	TYR A					
ATOM	196	С	TYR A		68.712 69.303	15.975	8.206 8.640	1.00 4.20 1.00 3.42
ATOM	197	0	TYR A			15.010		1.00 3.42 1.00 15.89
ATOM	198	CB	TYR A		70.651	17.264	8.979	
ATOM	199	CG	TYR A		71.627	17.234	7.813	1.00 18.89
ATOM	200		TYR A		72.465	18.333	7.531	1.00 16.94
ATOM	201		TYR A		71.610	16.157	6.908	1.00 21.92
MOTA	202		TYR A		73.251	18.360	6.356	1.00 17.80
ATOM	203		TYR A		72.384	16.168	5.735	1.00 23.20
ATOM	204	CZ	TYR A		73.199	17.281	5.457	1.00 19.97
ATOM	205	ОН	TYR A		73.903	17.327	4.264	1.00 13.14
ATOM	206	N	TYR A		67.622	15.879	7.483	1.00 2.00
ATOM	207	CA	TYR A		67.071	14.574	7.236	1.00 4.79
ATOM	208	С	TYR A		67.290	14.078	5.845	1.00 6.02
ATOM	209	0	TYR A		67.986	14.687	5.065	1.00 9.61
ATOM	210	CB	TYR A		65.584	14.615	7.506	1.00 3.67
MOTA	211	CG	TYR A		64.804	15.260	6.372	1.00 3.37
ATOM	212		TYR A		64.575	16.637	6.338	1.00 2.00
MOTA	213		TYR A		64.266	14.482	5.361	1.00 2.00
ATOM	214	CEl			63.835	17.188	5.344	1.00 2.00
ATOM	215		TYR A		63.540	15.027	4.386	1.00 2.00
MOTA	216	CZ	TYR A		63.318	16.373	4.374	1.00 2.00
MOTA	217	ОН	TYR A		62.550	16.865	3.363	1.00 4.78
MOTA	218	N	THR A		66.663	12.964	5.521	1.00 7.05
MOTA	219	CA	THR A		66.797	12.415	4.186	1.00 8.27
ATOM	220	С	THR A		65.507	11.762	3.737	1.00 7.63
ATOM	221	0	THR A		64.905	10.978	4.464	1.00 7.80
ATOM	222	CB	THR A		67.946	11.337	4.123	1.00 10.82
ATOM	223		THR A		69.196	11.959	4.438	1.00 10.48 1.00 5.24
ATOM	224		THR A		68.038	10.665	2.727	
ATOM	225	N	MET A		65.164	12.020	2.486	1.00 6.94
MOTA	226	CA	MET A		63.979	11.478	1.863	1.00 11.91
MOTA	227	С	MET A		64.225	11.615	0.325	1.00 14.47
ATOM	228.		MET A		63.798	12.557	-0.318	1.00 14.55
ATOM	229	CB	MET A		62.753	12.253	2.380	1.00 6.96
ATOM	230	CG	MET A		61.416	11.531	2.124	1.00 8.52
ATOM	231	SD	MET A		61.252	9.859	2.834	1.00 4.08
ATOM	232	CE	MET A		61.236	10.315	4.636	1.00 2.00
ATOM	233	N	SER A		64.944	10.657	-0.254	1.00 19.44
ATOM	234	CA	SER A		65.312	10.735	-1.665	1.00 21.91
ATOM	235	C	SER A		64.196	10.890	-2.643	1.00 24.26
ATOM	236	0	SER A		64.397	11.451	-3.725	1.00 23.81
ATOM	237	CB	SER A		66.174	9.545	-2.065	1.00 24.90
ATOM	238	OG	SER A	149	65.523	8.331	-1.747	1.00 34.35

ATOM	239	N	ASN A 150		63.018	10.397	-2.285	1.00 27.92
ATOM	240	CA	ASN A 150		61.869	10.552	-3.189	1.00 33.63
			ASN A 150		60.575	9.849	-2.769	1.00 32.38
ATOM	241	С						1.00 36.81
ATOM	242	0	ASN A 150		60.503	9.251	-1.696	
MOTA	243	CB	ASN A 150		62.241	10.124	-4.617	1.00 32.74
ATOM	244	CG	ASN A 150		62.792	8.726	-4.674	1.00 36.59
ATOM	245	ODl	ASN A 150		62.252	7.805	-4.058	1.00 39.51
ATOM	246	ND2	ASN A 150		63.876	8.553	-5.415	1.00 39.90
ATOM	247	N	ASN A 151		59.549	9.936	-3.612	1.00 27.39
ATOM	248	CA	ASN A 151		58.278	9.304	-3.302	1.00 22.04
ATOM	249	C	ASN A 151		58.367	7.791	-3.429	1.00 21.70
ATOM	250	o	ASN A 151		57.377	7.095	-3.269	1.00 25.53
ATOM	251	CB	ASN A 151		57.199	9.844	-4.234	1.00 24.28
			ASN A 151		57.057	11.363	-4.144	1.00 30.19
ATOM	252	CG						1.00 30.15
ATOM	253		ASN A 151		56.812	12.061	-5.151	
ATOM	254		ASN A 151		57.222	11.887	-2.928	1.00 34.37
ATOM	255	N	LEU A 152		59.534	7.265	-3.766	1.00 18.74
ATOM	256	CA	LEU A 152		59.657	5.829	-3.857	1.00 8.00
ATOM	257	С	LEU A 152		59.769	5.351	-2.419	1.00 8.27
ATOM	258	0	LEU A 152		59.719	4.158	-2.127	1.00 14.89
ATOM	259	CB	LEU A 152		60.866	5.451	-4.681	1.00 4.61
ATOM	260	CG	LEU A 152		60.618	5.563	-6.189	1.00 5.60
ATOM	261		LEU A 152		59.196	5.284	-6.531	1.00 2.00
ATOM	262		LEU A 152		60.967	6.978	-6.632	1.00 11.44
ATOM	263	N	VAL 153		59.955	6.292	-1.510	1.00 2.00
ATOM	264	CA	VAL A 153		59.944	5.964	-0.103	1.00 2.65
ATOM	265	C	VAL A 153		59.204	7.138	0.515	1.00 9.93
	266	0	VAL A 153		59.494	8.284	0.211	1.00 12.65
MOTA						5.840	0.512	1.00 12.00
ATOM	267	CB	VAL A 153		61.319	6.958		1.00 2.00
ATOM	268		VAL A 153		61.555		1.464	
ATOM	269		VAL A 153		61.385	4.597	1.323	1.00 3.40
MOTA	270	N	THR A 15		58.253	6.874	1.401	1.00 14.26
ATOM	271	CA	THR A 15		57.470	7.972	1.947	1.00 11.59
MOTA	272	С	THR A 15		57.220	7.760	3.441	1.00 13.42
ATOM	273	0	THR A 15		56.997	6.617	3.897	1.00 15.23
ATOM	274	CB	THR A 15		56.124	8.076	1.191	1.00 10.52
MOTA	275	OG1	THR A 154		55.078	7.687	2.072	1.00 21.99
ATOM	276	CG2	THR A 15	ļ.	56.049	7.087	0.018	1.00 4.65
ATOM	277	N	LEU A 15	5	57.316	8.848	4.204	1.00 9.88
ATOM	278	CA	LEU A 15	5	57.102	8.799	5.651	1.00 11.21
ATOM	279	С	LEU A 15	5	55.657	9.099	5.918	1.00 14.01
ATOM	280	0	LEU A 15		55.278	10.279	5.922	1.00 17.13
ATOM	281	СВ	LEU A 15	5	57.908	9.881	6.382	1.00 6.75
ATOM .	282	CG			58.084	9.802	7.912	
ATOM	283		LEU A 15		58.568	11.129	8.399	1.00 5.56
ATOM	284		LEU A 15		56.862	9.441	8.625	1.00 2.00
ATOM	285	N	GLU A 15		54.846	8.074	6.158	1.00 13.96
ATOM	286	CA	GLU A 15		53.463	8.358	6.457	1.00 11.80
			GLU A 15		53.465	8.227	7.920	1.00 13.99
ATOM	287	С						1.00 13.56
ATOM	288	0	GLU A 15		53.535	7.358	8.675	
ATOM	289	CB	GLU A 15		52.539	7.539	5.594	1.00 10.62
MOTA	290	CG	GLU A 15		52.578	6.082	5.797	1.00 11.05
ATOM	291	CD	GLU A 15		52.150	5.450	4.512	1.00 18.63
MOTA	292		GLU A 15		52.205	6.198	3.487	1.00 17.33
MOTA	293	OE2	GLU A 15	5	51.754	4.252	4.529	1.00 19.77
ATOM	294	N	ASN A 15	7	52.151	9.129	8.299	1.00 14.88
ATOM	295	CA	ASN A 15		51.603	9.204	9.643	1.00 13.66
MOTA	296	С	ASN A 15		52.621	9.525	10.684	1.00 11.06
ATOM	297	Ō	ASN A 15		52.313	9.514	11.863	1.00 11.30
ATOM	298	СВ	ASN A 15		50.893	7.905	9.996	1.00 19.33
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ATOM	299	CG A	ASN A 157	49.431	7.902	9.553	1.00 29.18
ATOM	300	001	ASN A 157	49.084	7.488	8.421	1.00 24.13
ATOM	301	ND2	ASN A 157	48.558	8.380	10.452	1.00 36.89
ATOM	302	N (GLY A 158	53.827	9.845	10.240	1.00 11.66
ATOM	303	CA	GLY A 158	54.877	10.190	11.172	1.00 11.70
		C	GLY A 158	55.119	8.997	12.044	1.00 13.80
ATOM	304	0	GLY A 158	55.692	9.117	13.126	1.00 15.52
ATOM	305	0	LYS A 159	54.669	7.835	11.579	1.00 14.81
ATOM	306	N .	LYS A 159	54.846	6.617	12.359	1.00 20.82
ATOM	307	CA	LYS A 159	55.714	5.593	11.654	1.00 13.54
MOTA	308			56.565	4.934	12.279	1.00 13.89
MOTA	309		LYS A 159	53.481	5.977	12.704	1.00 30.06
ATOM	310	CB	LYS A 159	52.231	6.835	12.414	1.00 40.43
MOTA	311	CG	LYS A 159	51.677	7.560	13.659	1.00 49.20
MOTA	312	CD	LYS A 159		8.235	13.356	1.00 55.22
ATOM	313		LYS A 159	50.313	8.937	14.527	1.00 54.14
MOTA	314		LYS A 159	49.690		10.367	1.00 3.14
MOTA	315	N	GLN A 160	55.483	5.444	9.619	1.00 10.14
ATOM	316		GLN A 160	56.272	4.495	8.246	1.00 13.05
MOTA	317		GLN A 160	56.834	4.967		
MOTA	318		GLN A 160	56.478	6.041	7.705	
ATOM	319	CB	GLN A 160	55.457	3.225	9.421	_
ATOM	320	CG	GLN A 160	54.631	3.243	8.120	1.00 16.70
MOTA	321	CD	GLN A 160	53.144	3.269	8.390	1.00 13.14
MOTA	322		GLN A 160	52.322	3.046	7.504	1.00 9.48
MOTA	323	NE2	GLN A 160	52.798	3.564	9.632	1.00 15.97
MOTA	324	N	LEU A 161	57.735	4.146	7.698	1.00 11.14
MOTA	325	CA	LEU A 161	58.331	4.428	6.397	1.00 6.57
MOTA	326	С	LEU A 161	57.812	3.315	5.528	1.00 6.52
ATOM	327	0	LEU A 161	57.938	2.129	5.868	1.00 2.00
ATOM	328	CB	LEU A 161	59.849	4.360	6.435	1.00 6.21
ATOM	329	CG	LEU A 161	60.586	5.439	7.194	1.00 3.15
ATOM	330		LEU A 161	61.976	4.961	7.618	1.00 2.00
ATOM	331	CD2	LEU A 161	60.599	6.668	6.313	1.00 3.75
ATOM	332	N	THR A 162	57.243	3.706	4.395	1.00 10.02
MOTA	333	CA	THR A 162	56.623	2.763	3.464	1.00 10.62
ATOM	334	С	THR A 162	57.297	2.812	2.129	1.00 10.71
ATOM	335	0	THR A 162	57.534	3.895	1.578	1.00 12.23
ATOM	336	CB	THR A 162	55.136	3.122	3.221	1.00 12.80
ATOM	337	OG1	THR A 162	54.370	2.791	4.375	1.00 9.93
ATOM	338	CG2	THR A 162	54.560	2.355	2.050	1.00 12.02
ATOM	339	N	VAL A 163	57.526	1.635	1.572	1.00 7.72
ATOM	340	CA	VAL A 163	58.214	1.556	0.305	1.00 6.49
ATOM	341	С	VAL A 163	57.326	1.072	-0.832	1.00 6.05
ATOM	342	0	VAL A 163	56.554	0.121	-0.696	
MOTA	343		VAL A 163	59.471	0.609	0.420	1.00 7.36
ATOM	344	CG1	VAL A 163	60.545	1.237	1.307	1.00 2.00
ATOM	345		VAL A 163	59.061	-0.746	0.982	1.00 2.00
ATOM	346		LYS A 164	57.496	1.684	-1.988	1.00 4.73
MOTA	347		LYS A 164	56.697	1.301	-3.128	1.00 7.98
MOTA	348		LYS A 164	57.343	0.237	-3.965	1.00 10.68
MOTA	349		LYS A 164	56.659	-0.412	-4.747	
ATOM	350		LYS A 164	56.439	2.497	-4.030	1.00 7.35
ATOM	351		LYS A 164	55.920	3.715	-3.301	1.00 20.46
ATOM	352		LYS A 164	54.913	4.511	-4.157	1.00 28.52
	353		LYS A 164	54.376	5.727	-3.393	
MOTA			LYS A 164	53.764	5.340		
MOTA	354		ARG A 165	58.653			
MOTA	355		ARG A 165 ARG A 165	59.331			
ATOM	356		ARG A 165	59.818			
MOTA	357						
MOTA	358	3 0	ARG A 165	60.486	1.504	2.710	

ATOM	359	CB	ARG A 1		60.508	-0.262	-5.361	1.00 11.20
MOTA	360	CG	ARG A 1	.65	60.181	0.189	-6.775	1.00 15.32
ATOM	361·	CD	ARG A 1		60.564	1.649	-6.977	1.00 20.12
ATOM	362	NE	ARG A 1		61.704	1.761	-7.866	1.00 14.57
ATOM	363	CZ	ARG A 1		61.657	2.356	-9.041	1.00 15.05
ATOM	364		ARG A 1		60.529	2.900	-9.477	1.00 18.39
ATOM	365		ARG A 1		62.727	2.348	-9.809	1.00 22.19
ATOM	366	N	GLN A 1		59.490	-3.332	-4.415	1.00 11.00
ATOM	367	CA	GLN A		59.974	-4.528	-3.707	1.00 16.99
ATOM	368	C	GLN A		61.485	-4.494	-3.666	1.00 18.86
	369	0	GLN A		62.106	-3.763	-4.435	1.00 24.95
MOTA			GLN A		59.539	-5.829	-4.383	1.00 14.52
MOTA	370	CB	GLN A		60.139	-6.034	-5.712	1.00 12.46
ATOM	371	CG	GLN A		59.222	-6.784	-6.623	1.00 21.84
MOTA	372	CD			58.044	-6.952	-6.322	1.00 23.35
ATOM	373		GLN A			-7.263	-7.748	1.00 27.55
MOTA	374		GLN A		59.751		-2.771	1.00 27.33
MOTA	375	N	GLY A		62.097	-5.251		1.00 17.22
MOTA	376	CA	GLY A		63.539	-5.234	-2.768	
MOTA	377	С	GLY A		64.293	-5.445	-1.477	1.00 20.59
MOTA	378	0	GLY A		63.697	-5.637	-0.419	1.00 24.49
MOTA	379	N	LEU A	168	65.623	-5.424	-1.570	1.00 16.95
MOTA	380	CA	LEU A	168	66.460	-5.574	-0.393	1.00 12.13
ATOM	381	С	LEU A	168	66.694	-4.139	0.122	1.00 8.01
ATOM	382	0	LEU A	168	66.789	-3.207	-0.668	1.00 8.68
ATOM	383	CB	LEU A	168	67.778	-6.226	-0.788	1.00 16.15
MOTA	384	CG	LEU A	168	68.101	-7.658	-0.364	1.00 20.66
ATOM	385	CD1	LEU A	168	67.298	-8.034	0.846	1.00 28.37
ATOM	386		LEU A		67.793	-8.604	-1.509	1.00 26.17
ATOM	387	N	TYR A		66.760	-3.944	1.428	1.00 2.00
ATOM	388	CA	TYR A		66.956	-2.611	1.946	1.00 2.00
ATOM	389	C	TYR A		67.741	-2.787	3.226	1.00 5.27
ATOM	390	Ö	TYR A		67.667	-3.849	3.891	1.00 4.60
ATOM	391	СВ	TYR A		65.622	-1.966	2.310	1.00 2.00
ATOM	392	CG	TYR A		64.676	-1.612	1.173	1.00 2.68
	393	CD1			63.903	-2.600	0.502	1.00 2.00
MOTA	394		TYR A		64.529	-0.277	0.784	1.00 2.29
ATOM	395	CE1			63.012	-2.252	-0.535	1.00 2.00
MOTA	396	CE2			63.660	0.080	-0.227	1.00 2.00
ATOM			TYR A		62.903	-0.905	-0.887	1.00 2.00
ATOM	397	CZ			62.052	-0.523	-1.903	1.00 8.09
MOTA	398	OH	TYR A			-1.780	3.557	1.00 4.97
ATOM	399	N	TYR A		68.539	-1.859	4.792	1.00 7.93
ATOM	400	CA	TYR A		69.285	-0.963	5.631	1.00 10.88
MOTA	401	С	TYR A		68.456			
ATOM	402	0	TYR A			0.220	4.693	1.00 7.04
ATOM	403	CB	TYR A		70.706	-1.288		1.00 7.04
ATOM	404	CG	TYR A		71.408	-1.249	6.047	
ATOM	405	CD1			71.719	-2.418	6.689	
MOTA	406		TYR A		71.645	_0.026	6.717	1.00 2.03
MOTA	- 407		TYR A		72.211	-2.400	7.913	1.00 2.00
ATOM	408		YYR A		72.152	-0.006	7.976	1.00 2.00
ATOM	409	CZ	TYR A		72.423	-1.209	8.562	1.00 2.00
ATOM	410	OH	TYR A		72.899	-1.253	9.836	1.00 3.83
ATOM	411	N	ILE A		67.970	-1.532	6.743	1.00 8.70
ATOM	412	CA	ILE A		67.110	-0.802	7.660	1.00 12.19
ATOM	413	С	ILE A		67.710	-0.548	. 9.042	1.00 7.20
ATOM	414	ō	ILE A		68.321	-1.435	9.625	1.00 7.41
ATOM	415		ILE A		65.704	-1.515	7.776	1.00 14.23
ATOM	416		I ILE A		65.012	-1.494	6.398	1.00 12.72
ATOM	417		2 ILE A		64.802	-0.749	8.764	1.00 16.37
ATOM	418		l ILE A		63.976	-2.493	6.222	1.00 11.62
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ATOM	419	N	TYR A 172	67.522	0.655	9.577	1.00 2.48 1.00 2.93
MOTA	420	CA	TYR A 172	68.104	0.965	10.872	1.00 2.93 1.00 8.63
ATOM	421	С	TYR A 172	67.317	1.973	11.666	1.00 15.64
MOTA	422	0	TYR A 172	66.534	2.758	11.110	1.00 15.04
ATOM	423	CB	TYR A 172	69.482	1.558	10.663	1.00 3.10
ATOM	424	CG	TYR A 172	69.472	2.916	9.932	1.00 3.91
MOTA	425		TYR A 172	69.395	2.983	8.554	1.00 2.00
MOTA	426		TYR A 172	69.566	4.117	10.620 7.897	1.00 2.00
MOTA	427		TYR A 172	69.407	4.187	9.952	1.00 2.00
ATOM .	428	CE2		69.582	5.316	9.952 8.591	1.00 2.00
MOTA	429	CZ	TYR A 172	69.495	5.334	7.877	1.00 2.00
MOTA	430	OH	TYR A 172	69.425	6 ⁻ .502 2.025	12.955	1.00 2.50
MOTA	431	N	ALA A 173	67.614		13.836	1.00 3.16
ATOM	432	CA	ALA A 173	66.952	2.947	14.967	1.00 7.89
ATOM	433	С	ALA A 173	67.904	3.147	15.575	1.00 12.80
ATOM	434	0	ALA A 173	68.336	2.186 2.348	14.343	1.00 2.00
MOTA	435	CB	ALA A 173	65.726	4.380	15.252	1.00 11.39
MOTA	436	N	GLN A 174	68.268	4.633	16.360	1.00 14.94
MOTA	437	CA	GLN A 174	69.178 68.226	5.213	17.352	1.00 15.25
MOTA	438	C	GLN A 174	67.470	6.132	17.009	1.00 15.09
MOTA	439	0	GLN A 174	70.222	5.719	15.999	1.00 25.47
ATOM	440	CB	GLN A 174 GLN A 174	71.663	5.547	16.545	1.00 29.78
ATOM	441	CG	GLN A 174 GLN A 174	71.995	6.399	17.819	1.00 37.27
ATOM	442	CP		73.166	6.645	18.124	1.00 42.67
ATOM	443	OE1	GLN A 174	70.973	6.819	18.554	1.00 33.19
ATOM	444	NEZ N	VAL A 175	68.282	4.709	18.579	1.00 17.17
ATOM	445 446	CA	VAL A 175	67.413	5.209	19.638	1.00 17.55
ATOM	447	C	VAL A 175	68.131	5.351	20.970	1.00 17.69
ATOM	447	0	VAL A 175	68.700	4.412	21.504	1.00 22.37
ATOM	449	СВ	VAL A 175	66.208	4.282	19.860	1.00 16.39
ATOM ATOM	450		VAL A 175	65.567	4.577	21.243	1.00 12.42
ATOM	451		VAL A 175	65.216	4.465	18.731	1.00 10.94
ATOM	452	N	THR A 176	68.139	6.543	21.502	1.00 17.07
ATOM	453	CA	THR A 176	68.757	6.715	22.785	1.00 20.53
ATOM	454	C	THR A 176	67.575	7.169	23.631	1.00 26.74
ATOM	455	ō	THR A 176	66.643	7.790	23.102	1.00 31.79
ATOM	456	СВ	THR A 176	69.852	7.804	22.752	1.00 20.81
ATOM	457	OG:	1 THR A 176	69.645	8.697	23.853	1.00 23.45
ATOM	458	CG		69.835	8.611	21.417	1.00 16.18
ATOM	459	N	PHE A 177	67.612	6.876	24.927	1.00 26.18
ATOM	460	CA		66.527	7.233	25.829	1.00 20.88
MOTA	461	С	PHE A 177	67.139	7.602	27.158	1.00 22.65
ATOM	462	0		68.332		27.375	1.00 25.78
ATOM	463	CB		65.565	6.058	25.993	1.00 13.75 1.00 12.35
MOTA	464			66.197	4.815	26.557	1.00 12.35
MOTA	465	CD	1 PHE A 177	66.899	3.931	25.736	1.00 12.33
MOTA	466		2 PHE A 177	66.027	4.487	27.888	1.00 11.24
MOTA	467		1 PHE A 177	67.409	2.730	26.234	1.00 8.24
MOTA	468		2 PHE A 177	66.530	3.299	28.383	1.00 7.55
MOTA	469			67.220	2.418	27.558	1.00 23.01
MOTA	470		CYS A 178	66.323	8.170	28.040 29.346	
MOTA	471			66.773	8.635	30.377	
MOTA	472		CYS A 178	65.839	8.131		
MOTA	473		CYS A 178	64.661	8.395		
ATOM	474			66.735	10.141		
ATOM	475			67.912	7.431		
ATOM	476		SER A 179	66.342	6.894		
ATOM	477			65.443	6.666		
ATOM	478	3 C	SER A 179	66.117	0.000	33.073	1.00 00.00

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MOTA	479	0	SER A 179	67.206	,	33.912	1.00 35.22
ATOM	480	CB	SER A 179	64.872		31.860	1.00 29.98
ATOM	481	OG	SER A 179	65.927	4.661	31.729	1.00 32.36
ATOM	482	'n	ASN A 180	65.451	5.933	34.547	1.00 42.18
ATOM	483	CA	ASN A 180	66.000	5.672	35.865	1.00 48.63
ATOM	484	C	ASN A 180	65.862	4.215	36.272	1.00 50.05
ATOM	485	Ö	ASN A 180	65.031	3.492	35.727	1.00 51.30
	486	СВ	ASN A 180	65.291	6.555	36.879	1.00 50.44
MOTA	487	CG	ASN A 180	66.101	6.746	38.112	1.00 52.90
MOTA	488		ASN A 180	65.993	5.969	39.064	1.00 55.56
MOTA	489		ASN A 180	66.954	7.766	38.101	1.00 53.24
ATOM		N	ARG A 181	66.659	3.779	37.236	1.00 52.77
ATOM	490	CA	ARG A 181	66.553	2.396	37.652	1.00 59.50
ATOM	491	C	ARG A 181	65.154	2.167	38.222	1.00 64.73
MOTA	492		ARG A 181	64.315	1.584	37.545	1.00 64.19
ATOM	493	O	ARG A 181	67.642	2.018	38.681	1.00 61.83
ATOM	494	CB	ARG A 101 ARG A 181	67.558	2.704	40.048	1.00 65.13
ATOM	495	CG	ARG A 181	68.043	1.776	41.158	1.00 68.43
ATOM	496	CD	ARG A 181	67.157	1.790	42.318	1.00 73.16
MOTA	497	NÉ		66.185	0.900	42.533	1.00 77.98
MOTA	498	CZ	ARG A 181	65.959	-0.090	41.669	1.00 77.85
MOTA	499	NH1		65.432	1.002	43.620	1.00 78.32
MOTA	500		ARG A 181	64.890	2.670	39.432	1.00 68.56
MOTA	501	N	GLU A 182	63.602	2.482	40.087	1.00 69.15
MOTA	502	CA	GLU A 182	62.458	3.231	39.468	1.00 70.34
MOTA	503	С	GLU A 182	61.363	2.694	39.421	1.00 71.60
MOTA	504	0	GLU A 182	63.685	2.858	41.564	1.00 71.44
MOTA	505	CB	GLU A 182	62.427	2.535	42.378	1.00 75.91
MOTA	506	CG	GLU A 182	61.767	1.214	41.993	1.00 76.30
MOTA	507	CD	GLU A 182	60.579	1.227	41.618	1.00 76.66
MOTA	508	OE]		62.423	0.159	42.071	1.00 77.00
MOTA	509	OE2			4.459	39.005	1.00 72.39
ATOM	510	N	ALA A 183	62.698	5.279	38.389	1.00 75.78
MOTA	511	CA	ALA A 183	61.644	4.414	37.737	1.00 76.77
MOTA	512	С	ALA A 183	60.565	4.075	38.354	1.00 77.69
MOTA	513	0	ALA A 183	59.553	6.185	37.360	1.00 78.21
MOTA	514	СВ	ALA A 183	62.247	4.077	36.472	1.00 76.88
MOTA	515		SER A 184	60.766	3.197	35.811	1.00 78.01
MOTA	516			59.818	1.801	36.235	1.00 76.96
MOTA	517		SER A 184	60.307	0.845	36.367	
MOTA	518		SER A 184	59.534	3.366	34.284	1.00 79.65
MOTA	519			59.896	4.032	33.764	1.00 79.24
MOTA	520			58.749	1.721	36.487	1.00 75.77
ATOM	521		SER A 185	61.610 62.242	0.478	36.888	1.00 75.07
MOTA	522		SER A 185		-0.683	36.096	1.00 72.62
MOTA	523		SER A 185	61.704	-1.019	35.043	1.00 72.82
MOTA	524		SER A 185	62.241	0.226	38.381	1.00 78.18
MOTA	525			62.042	-0.180		1.00 80.22
MOTA	526			63.267			
MOTA	527		GLN A 186	60.634	-1.285 -2.420		
MOTA	528			60.019	-3.320		
MOTA	529	9 C	GLN A 186	61.094			
MOTA	530			62.090	-3.696 -1.933		
MOTA	53	l CE		59.044	-1.933		
MOTA	532	2 CC		59.621	-0.869		
MOTA	53			59.791	-1.362		
MOTA	53		E1 GLN A 186	59.068			
MOTA	53	5 N	E2 GLN A 186	60.746			
MOTA	53		ALA A 187	60.865	~3.652		
MOTA	53	7 C7		61.754			
MOTA	53	8 C	ALA A 187	62.581	-3.561	32.349	7 1.00 43.79

ATOM	539	0	ALA A 187		62.539	-2.331	32.478	1.00 42.07
ATOM	540	СВ	ALA A 187		60.916	-5.434	32.411	1.00 54.64
ATOM	541	N	PRO A 188		63.358	-4.144	31.430	1.00 37.44
ATOM	542	CA	PRO A 188		64.155	-3.307	30.555	1.00 36.73
ATOM	543	C	PRO A 188		63.358	-2.420	29.610	1.00 33.87
	544	0	PRO A 188		62.124	-2.423	29.608	1.00 39.05
MOTA	545	СВ	PRO A 188		65.013	-4.318	29.797	1.00 37.81
MOTA			PRO A 188		64.246	-5.509	29.779	1.00 32.28
MOTA	546	CG			63.628	-5.557	31.143	1.00 38.41
MOTA	547	CD	PRO A 188		64.107	-1.667	28.809	1.00 26.88
MOTA	548	N	PHE A 189		63.582	-0.752	27.812	1.00 17.48
ATOM	549	CA	PHE A 189			-1.454	26.487	1.00 12.83
MOTA	550	С	PHE A 189		63.885	-1.422	26.005	1.00 13.14
MOTA	551	0	PHE A 189		65.011		27.906	1.00 13.14
MOTA	552	CB	PHE A 189		64.337	0.595		1.00 10.76
MOTA	553	CG	PHE A 189	9	64.039	1.550	26.779	
MOTA	554	CD1	PHE A 189		64.534	1.305	25.509	
MOTA	555	CD2	PHE A 189		63.134	2.594	26.951	
MOTA	556	CE1	PHE A 189		64.109	2.068	24.424	1.00 15.58
ATOM	557	CE2	PHE A 189		62.706	3.360	25.878	1.00 2.56
ATOM	558	CZ	PHE A 189		63.181	3.099	24.613	1.00 9.30
ATOM	559	N	ILE A 190		62.930	-2.150	25.903	1.00 6.54
ATOM	560	CA	ILE A 190		63.264	-2.766	24.638	1.00 7.67
ATOM	561	C	ILE A 190		62.719	-1.925	23.471	1.00 9.21
ATOM	562	Ö	ILE A 190		61.654	-1.319	23.583	1.00 10.36
	563	СВ	ILE A 190		62.797	-4.267	24.581	1.00 2.00
ATOM	564	CG1			61.595	-4.432	23.687	1.00 12.49
ATOM	565	CG2			62.531	-4.770	25.890	1.00 2.00
ATOM	566	CD1			61.991	-4.460	22.210	1.00 22.66
MOTA			ALA A 191		63.474	-1.833	22.376	1.00 5.82
MOTA	567	N			63.013	-1.075	21.220	1.00 5.16
ATOM	568	CA	ALA A 191 ALA A 191		62.929	-2.092	20.110	1.00 5.59
MOTA	569	С			63.673	-3.049	20.125	1.00 8.06
MOTA	570	0	ALA A 191		63.977	-0.001	20.878	1.00 2.00
MOTA	571	CB	ALA A 191		62.001	-1.928	19.175	1.00 6.44
MOTA	572	N	SER A 192		61.850	-2.905	18.099	1.00 7.35
MOTA	573	CA	SER A 192			-2.296	16.762	1.00 8.22
MOTA	574	С	SER A 192		61.562	-1.321	16.678	1.00 3.46
MOTA	575	0	SER A 192		60.782	-3.876	18.395	1.00 10.15
ATOM	576	CB	SER A 192		60.715		19.785	1.00 20.22
ATOM	577	OG	SER A 192		60.544	-4.055		1.00 20.22
MOTA	578	N	LEU A 193		62.220	-2.851	15.730	1.00 2.00
ATOM	579	CA	LEU A 193		62.012	-2.386	14.381	1.00 2.00
MOTA	580	С	LEU A 193		60.970	-3.317	13.819	
MOTA	581	0	LEU A 193		61.204	-4.513	13.708	1.00 2.00 1.00 2.34
MOTA	582	CB	LEU A 193		63.318	-2.410	13.581	
MOTA	583	CG	LEU A 193		63.387	-1.682	12.213	1.00 2.08
MOTA	584	CD:			64.125	-2.568	11.197	1.00 2.35
ATOM	585	CD	2 LEU A 193		62.017		11.651	1.00 2.00
ATOM	586	N	CYS A 194		59.785		13.538	1.00 3.96
MOTA	- 587	CA	CYS A 194		58.671		13.028	1.00 3.85
ATOM	588		CYS A 194		58.336	-3.332	11.583	1.00 2.83
ATOM	589		CYS A 194		58.482	-2.230	11.040	1.00 2.00
ATOM	590		CYS A 194		57.434	-3.344	13.899	1.00 2.00
ATOM	591		CYS A 194		57.686		15.654	1.00 12.30
ATOM	592		LEU A 195		57.861			1.00 2.47
	593				57.557			1.00 2.00
ATOM	594		LEU A 195		56.157		_	1.00 8.69
MOTA			LEU A 195		55.708			
ATOM	595				58.412		_	
ATOM	596				57.818		_	
MOTA	597				57.706			
MOTA	598	s CD	1 LEU A 195		5/.100	, -3.049	0.514	1.00 2.00

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MOTA	599	CD2	LEU A 19	5	58.659	-7.186	7.250	1.00	2.00
MOTA	600	N	LYS A 19	6	55.474	-4.066	8.512		14.95
MOTA	601	CA	LYS A 19		54.080	-4.352	8.256		17.18
ATOM	602	С	LYS A 19		53.906	-4.440	6.748		19.04
MOTA	603	0	LYS A 19		53.817	-3.413	6.066		22.68
MOTA	604	CB	LYS A 19		53.208	-3.239	8.843		10.86
MOTA	605	CĢ	LYS A 19		51.722	-3.473	8.657		19.19
MOTA	606	CD	LYS A 19		51.294	-4.849	9.253	1.00	
MOTA	607	CE	LYS A 19		50.080	-5.448	8.553		22.96
MOTA	608	NZ	LYS A 19		49.978	-4.923	7.165		29.68
MOTA	609	N	SER A 19		53.884	-5.658	6.212		17.44
MOTA	610	CA	SER A 19		53.723	-5.790	4.771	1.00 1.00	18.05
MOTA	611	С	SER A 19		52.257	-5.957	4.447		20.83
ATOM	612	0	SER A 19		51.496	-6.530	5.228		20.03
MOTA	613	CB	SER A 19		54.479	-7.001	4.229	1.00	
ATOM	614	OG	SER A 19		53.864	-7.532	3.049	1.00	
MOTA	615	N	PRO A 19		51.855	-5.513	3.248 2.834		19.36
ATOM	616	CA	PRO A 19		50.459	~5.627	2.034		17.02
ATOM	617	C	PRO A 19		49.939 50.609	-7.047 -7.978	2.552		20.04
ATOM	618	0	PRO A 19			-5.148	1.382		17.36
MOTA	619	CB	PRO A 19		50.474 51.908	-5.290	0.928		19.13
ATOM	620	CG	PRO A 19		52.681	-4.923	2.177		25.36
ATOM	621	N D	GLY A 19		48.751	-7.202	3.486		20.84
ATOM	622	CA	GLY A 19		48.129	-8.504	3.557		18.97
ATOM	623 624	CA	GLY A 19		48.826	-9.457	4.469		17.59
MOTA	625	0	GLY A 19			-10.662	4.321		20.09
ATOM ATOM	626	N	ARG A 20		49.570	-8.924	5.422		17.00
ATOM	627	CA	ARG A 20		50.289	-9.777	6.356		16.81
ATOM	628	C	ARG A 20		50.189	-9.140	7.699		17.77
ATOM	629	ŏ	ARG A 20		50.063	-7.907	7.800	1.00	14.78
ATOM	630	СВ	ARG A 20		51.759	-9.880	5.989	1.00	15.22
ATOM	631	CG	ARG A 20		51.978	-10.280	4.571	1.00	14.22
ATOM	632	CD	ARG A 20			-11.735	4.443	1.00	14.54
ATOM	633	NE	ARG A 20	00		-12.128	3.056	1.00	27.29
ATOM	634	CZ	ARG A 20	00	52.229	-13.306	2.646		35.34
ATOM	635	NH1	ARG A 20	00	52.646	-14.207	3.538		35.17
ATOM	636	NH2	ARG A 20	00		-13.571	1.340		42.93
MOTA	637	N	PHE A 20		50.239	-9.965	8.737	1.00	
MOTA	638	CA	PHE A 20		50.175	-9.412	10.070	1.00	
MOTA	639	С	PHE A 20		51.501	-8.721	10.305		22.10
MOTA	640	0	PHE A 20		52.486	-8.949	9.582		25.97
ATOM	641	CB	PHE A 20			-10.516	11.102		23.86
MOTA	642	CG	PHE A 20			-11.129	11.065		38.71
ATOM	643		PHE A 20			-10.745	11.989		45.17
MOTA	644		PHE A 20			-12.069	10.078		42.82
ATOM	645		. PHE A 20			-11.295	11.920		47.04
ATOM	646		PHE A 20			-12.627	9.993		43.06 45.40
ATOM	647	CZ	PHE A 2			-12.241	10.910		17.05
MOTA	648	N	GLU A 2		51.535	-7.866	11.304 11.642		16.87
MOTA	649	CA	GLU A 2		52.760				19.86
ATOM	650	C	GLU A 2		53.815	-8.309 -9.497	11.856 11.605		23.81
MOTA	651	0	GLU A 2		53.578 52.555	-9.497 -6.457	12.903		16.99
MOTA	652	CB	GLU A 2			-6.457 -5.367	12.707		23.80
ATOM	653	CG	GLU A 2		51.617 51.392		13.979		35.91
ATOM	654 655	CD	GLU A 2		51.758		15.053		35.76
ATOM	655 656		E GLU A 2		50.844		13.895		44.48
ATOM ATOM	656 657		ARG A 2		54.979		12.344		19.53
ATOM	658	N CA	ARG A 2		56.076		12.557		16.44
ATOM	038	CA	ARG A Z	0.5	55.070	0.000			

				20	57.253		8.000	13.036	1.00 1	5.24
MOTA	659	С	ARG A 20)3 12	57.349			12.729	1.00 1	
MOTA	660	0	ARG A 2	03	56.394			11.235	1.00	15.75
MOTA	661	CB	ARG A 2		57.796			11.086	1.00 2	
MOTA	662	CG	ARG A 2	U.3 0.2	57.866	-1	1.532	10.566	1.00 3	
ATOM	663	CD	ARG A 2	0.3 0.2	59.225			10.745	1.00	
ATOM	664	NE	ARG A 2		59.724			11.874	1.00	
ATOM	665	CZ	ARG A 2		59.005			12.997	1.00	
ATOM	666	ипэ	ARG A 2	03 03	60.997			11.907	1.00	
ATOM	667 668	Nnz	ILE A 2	0.4	58.107		8.623	13.841	1.00	12.76
MOTA	669	CA	ILE A 2		59.291		7.964	14.360	1.00	7.26
MOTA	670	C	ILE A 2	04	60.537		8.400	13.567	1.00	7.61
ATOM ATOM	671	o	ILE A 2	04	60.771	_	9.600	13.293	1.00	4.59
ATOM	672	СВ	ILE A 2	04	59.478	-	-8.312	15.835	1.00	4.07
ATOM	673	CG1		04	58.374		-7.673	16.658	1.00	7.58
·ATOM	674	CG2	_	04	60.768		-7.798	16.331	1.00	6.94
ATOM	675	CD1			58.675		-7.562	18.143	1.00	7.31
ATOM	676	N	LEU A 2	205	61.326		-7.414	13.167	1.00	6.43 2.00
ATOM	677	CA	LEU A 2	205	62.547		-7.718	12.462	1.00	2.51
ATOM	678	С	LEU A 2		63.705		-7.634	13.486	1.00	8.74
ATOM	679	0	LEU A 2		64.403		-8.606	13.701	1.00	2.00
ATOM	680	CB	LEU A 2		62.747		-6.750	11.301	1.00	2.00
MOTA	681	CG	LEU A 2		61.658		-6.828	10.231 9.114	1.00	2.00
MOTA	682	CD1			61.958		-5.805	9.726	1.00	2.00
MOTA	683	CD2			61.522		-8.280 -6.516	14.160	1.00	2.00
ATOM	684	N	LEU A		63.905 65.015		-6.442	15.107	1.00	4.82
MOTA	685	CA	LEU A		64.55		-5.851	16.427	1.00	5.87
MOTA	686	С	LEU A		63.53		-5.162	16.472	1.00	9.33
ATOM	687	0	LEU A		66.13	_	-5.512	14.594		10.44
MOTA	688	CB	LEU A		66.91		-5.440	13.296	1.00	2.00
ATOM	689	CG	1 LEU A		66.66		-6.534	12.378	1.00	2.00
MOTA	690 691		2 LEU A		66.52		-4.191	12.692	1.00	2.00
MOTA	692	N	ARG A	207	65.40		-5.973	17.447	1.00	2.49
MOTA MOTA	693	CA	_		65.07	6	-5.478	18.756	1.00	4.00
ATOM	694	C	ARG A		66.30	7	-5.359	19.586	1.00	
ATOM	695		ARG A	207	67.10	9	-6.262	19.616	1.00	11.27
ATOM	696			207	64.17	7	-6.462	19.470	1.00	15.58
ATOM	697		ARG A	207	62.69		-6.237	19.294	1.00	19.52 23.55
ATOM	698	CD			61.94		-7.352	19.951	1.00	29.30
ATOM	699	NE			61.11		-6.904	21.061	1.00	32.93
ATOM	700	CZ			60.71		-7.703	22.043 22.051	1.00	38.59
MOTA	701		1 ARG A		61.07		-8.984	22.031	1 00	36.04
MOTA	702		2 ARG A	207	59.90		-7.246	20.330	1.00	
MOTA	703		ALA A	208	66.40 67.53		-4.276 -4.013	21.209		
MOTA	704			208	66.92		-3.782	22.588		
MOTA	705		ALA A		65.75		-3.416	22.688		17.68
MOTA	706		ALA A		68.23	19	-2.760		1.00	6.77
MOTA	707		ALA A ALA A	200	67.70		-3.913		1.00	15.98
MOTA	708				67.1		-3.716		1.00	17.90
MOTA	709				68.1		-3.576		1.00	24.16
MOTA	710		_	209	68.9		-4.458		1.00	26.79
MOTA	71: 71:		_		66.2		-4.856		1.00	21.40
MOTA	71:			210	68.0		-2.488	26.799		29.32
ATOM ATOM	71		_	210	69.0		-2.209	27.887	_	31.61
ATOM	71				68.2		-2.219	29.217	_	0 30.69
ATOM	71				67.0		-2.323			0 28.28
ATOM	71			210	69.6	52	-0.832			0 32.66
MOTA	71			210	70.6	15	-0.837	26.51	1.0	0 35.38

								1 00 21 00
MOTA	719	OD1	ASN A 210		70.292			1.00 31.08 1.00 37.26
ATOM	720	ND2	ASN A 210		71.823	-0.328		
ATOM	721	N	THR A 211		69.035	-2.071	30.287	1.00 33.88
MOTA	722	CA	THR A 211		68.447	-2.059	31.607	1.00 35.15
ATOM	723	C	THR A 211		68.635	-0.694	32.246	1.00 38.63
ATOM	724	Ö	THR A 211		69.765	-0.309	32.552	1.00 42.19
ATOM	725	СВ	THR A 211		69.097	-3.109	32.502	1.00 30.80
	726	OG1	THR A 211		69.688	-4.133	31.704	1.00 29.56
MOTA	727	CG2	THR A 211		68.070	-3.738	33.363	1.00 35.49
MOTA	728	N N	HIS A 212		67.527	0.013	32.464	1.00 39.93
MOTA		CA	HIS A 212		67.542	1.343	33.064	1.00 40.49
ATOM	729		HIS A 212		68.719	1.599	34.034	1.00 40.25
ATOM	730	C	HIS A 212		69.039	0.805	34.936	1.00 34.80
ATOM	731	O	HIS A 212		66.199	1.623	33.775	1.00 41.34
MOTA	732	CB	HIS A 212		64.993	1.551	32.882	1.00 41.41
MOTA	733	CG	HIS A 212		63.874	0.807	33.195	1.00 44.27
MOTA	734	ирт	HIS A 212		64.746	2.092	31.664	1.00 40.94
ATOM	735	CDZ	HIS A 212		62.998	0.879	32.211	1.00 41.42
MOTA	736	CEI	HIS A 212		63.504	1.654	31.267	1.00 42.09
ATOM	737		HIS A 212		69.377	2.725	33.810	1.00 42.95
MOTA	738	N	SER A 213		70.500	3.129	34.640	1.00 44.87
MOTA	739	CA	SER A 213		69.935	3.766	35.889	1.00 44.10
ATOM	740	С	SER A 213		68.726	3.898	36.035	1.00 45.98
ATOM	741	0	SER A 213		-	4.145	33.885	1.00 47.74
ATOM	742	CB	SER A 213		71.373	5.490	34.279	1.00 49.65
ATOM	743	OG	SER A 213		71.118	4.181	36.784	1.00 43.39
MOTA	744	N	SER A 214		70.807	4.101	37.992	1.00 47.24
ATOM	745	CA	SER A 214	•	70.345		37.813	1.00 47.25
ATOM	746	С	SER A 214		70.393	6.318	38.292	1.00 53.48
MOTA	747	0	SER A 214		69.533	7.044	39.149	1.00 51.53
MOTA	748	CB	SER A 214		71.235	4.418	39.143	1.00 61.43
MOTA	749	OG	SER A 214		72.371	5.260	37.138	1.00 42.96
ATOM	750	N	ALA A 215		71.423	6.784	36.892	1.00 41.39
ATOM	751	CA	ALA A 215		71.587	8.193	37.058	1.00 42.51
ATOM	752	C	ALA A 215		70.330	9.064	36.223	1.00 42.51
MOTA	753	0	ALA A 215		69.427	9.032	35.528	1.00 42.71
MOTA	754	CB	ALA A 215		72.130	8.359	38.139	1.00 43.23
MOTA	755	N	LYS A 216		70.277	9.839	38.381	1.00 42.92
MOTA	756	CA	LYS A 216		69.157		37.669	1.00 44.03
ATOM	757	С	LYS A 216		69.425			1.00 46.77
ATOM	758	0	LYS A 216		70.567		37.554	1.00 41.98
ATOM	759	CB	LYS A 216		68.986		39.868	1.00 41.30
MOTA	760	CG	LYS A 216		68.336		40.583	1.00 59.63
ATOM	761	CD	LYS A 216		66.811		40.362	1.00 53.03
MOTA	. 762	CE.	LYS A 216		66.118		41.356	1.00 62.46
ATOM	763	NZ	LYS A 216		64.754		40.904	1.00 02.40
ATOM	764	l N	PRO A 217		68.373			
ATOM	765		PRO A 217		66.972			1.00 40.65
ATOM	766		PRO A 217		66.836			
ATOM	767		PRO A 217		66.100			
ATOM	. 768		017		66.229			
A.TOM	769		017		67.222	14.038		
ATOM	770				68.525	3 13.968		1.00 40.51
ATOM	77:		CYS A 218		67.566	5 11.057		1.00 31.05
ATOM .			010		67.564	9.916		
ATOM .	77		CYS A 218		68.913			
	77		CYS A 218		69.57			
MOTA	77		010		66.542	_	33.249	
MOTA	77				66.87		1 32.185	
ATOM	77		GLY A 219		69.31		2 33.290	
ATOM					70.59			1.00 15.75
MOTA	77	8 C.F	7 OUT W 713					

ATOM ATOM ATOM ATOM ATOM ATOM	779 C GLY A 219 780 O GLY A 219 781 N GLN A 220 782 CA GLN A 220 783 C GLN A 220 784 O GLN A 220 785 CB GLN A 220	69.695 70.910 70.691 71.416 72.322	6.996 8.731 8.340 7.027	30.999 1 30.239 1 28.859 1 28.528 1 29.228 27.904	.00 14.36 .00 16.88 .00 8.40 .00 6.58 .00 6.24 .00 5.90
MOTA	785 CB GLN A 220 786 CG GLN A 220	,	0.547	_,	1.00 2.65 1.00 6.68
MOTA	787 CD GLN A 220		1.710		
ATOM ATOM	788 OE1 GLN A 220		2.328		1.00 7.29 1.00 2.00
ATOM	789 NE2 GLN A 220		2.008		1.00 3.22
ATOM	790 N GLN A 221	71.006	6.399		1.00 6.32
ATOM	791 CA GLN A 221	71.606	5.153 5.070	25.531	1.00 12.85
MOTA	792 C GLN A 221	71.198	5.458	25.173	1.00 16.65
ATOM	793 O GLN A 221	70.070	3.985	27.730	1.00 2.34
ATOM	794 CB GLN A 221	70.994 71.630	3.637	29.018	1.00 15.69
MOTA	795 CG GLN A 221	71.030	2.180	29.307	1.00 30.57
MOTA	796 CD GLN A 221	72.331	1.359	29.188	1.00 45.75
MOTA	797 OE1 GLN A 221	70.181	1.831	29.671	1.00 34.58
MOTA	798 NE2 GLN A 221	72.077	4.588	24.666	1.00 10.31
MOTA	799 N SER A 222 800 CA SER A 222	71.671	4.534	23.292	1.00 8.96
ATOM	000	71.393	3.138	22.803	1.00 9.06
MOTA	801 C SER A 222 802 O SER A 222	71.775	2.182	23.443	1.00 9.90
MOTA	803 CB SER A 222	72.726	5.209	22.461	1.00 15.62
ATOM ATOM	804 OG SER A 222	72.416	6.582	22.341	1.00 15.70 1.00 7.52
ATOM	805 N ILE A 223	70.735	3.027	21.652	1.00 7.52 1.00 7.22
ATOM	806 CA ILE A 223	70.383	1.744	21.079 19.557	1.00 13.85
ATOM	807 C ILE A 223	70.503	1.841	18.987	1.00 14.97
ATOM	808 O ILE A 223	70.163	2.888 1.420	21.436	1.00 8.39
MOTA	809 CB ILE A 223	68.966	0.332	22.482	1.00 13.96
MOTA	810 CG1 ILE A 223	68.968 68.176	0.985	20.201	1.00 8.10
MOTA	811 CG2 ILE A 223	67.612	0.075	23.017	1.00 25.01
MOTA	812 CD1 ILE A 223 813 N HIS A 224.	70.947	0.755		1.00 12.32
MOTA		71.119	0.770		1.00 7.06
MOTA	004	70.790	-0.538	16.735	1.00 5.86
MOTA	815 C HIS A 224 816 O HIS A 224	71.252	-1.569		1.00 13.21 1.00 6.77
MOTA	817 CB HIS A 224	72.564	1.151		
MOTA MOTA	818 CG HIS A 224	72.802	1.488		1.00 9.76 1.00 2.05
MOTA	819 ND1 HIS A 224	72.962	2.790		1.00 2.03
MOTA	820 CD2 HIS A 224	72.835	0.700		1.00 9.42
ATOM	821 CE1 HIS A 224	73.071	2.781 1.528	-	1.00 11.93
MOTA	822 NE2 HIS A 224	73.004	-0.530		1.00 4.75
MOTA	823 N LEU A 225	69.975 69.686	-1.790		1.00 8.42
MOTA	824 CA LEU A 225	69.525	-1.649		1.00 8.16
MOTA	825 C LEU A 225	68.707	-0.868		1.00 10.95
MOTA	826 O LEU A 225 827 CB LEU A 225	68.439	-2.51		1.00 10.12
MOTA	005	67.537	-1.61		1.00 18.59
MOTA	005	66.239	-1.23	0 15.740	
ATOM	005	67.212	-2.30	1 17.758	
MOTA	830 CD2 LEU A 225 831 N GLY A 226	70.324	-2.42		
MOTA	832 CA GLY A 226	70.250	-2.40		
MOTA MOTA	833 C GLY A 226	69.937			
MOTA	834 O GLY A 226	69.406			_
MOTA	835 N GLY A 227	70.332			
MOTA	836 CA GLY A 227	70.019			
ATOM	837 C GLY A 227	69.469			
MOTA	CTN 7 727	68.763	, 4.3		

አ ሞOM	839 N	VAL A 228	69.856	-6.215		1.00 4.02
MOTA	840 CA		69.331	-6.151		1.00 8.39
MOTA	841 C	VAL A 228	68.095	-7.026	-	1.00 12.75
MOTA	842 0	VAL A 228	68.090	-8.180	5.863	1.00 14.80
ATOM	843 CE		70.349	-6.687	4.460	1.00 7.10
MOTA	844 CC		69.659	-7.059	3.099	1.00 2.00
MOTA		G2 VAL A 228	71.349	-5.639	4.208	1.00 8.40
ATOM		PHE A 229	67.067	-6.501	4.747	1.00 10.45
MOTA	846 N 847 CA		65.858	-7.262	4.570	1.00 6.28
MOTA			65.346	-7.062	3.180	1.00 6.59
ATOM		000	65.688	-6.093	2.524	1.00 5.88
MOTA	849 O 850 CI		64.799	-6.799	5.556	1.00 4.02
MOTA			65.213	-6.947	6.981	1.00 2.00
MOTA		D1 PHE A 229	65.123	-8.169	7.628	1.00 2.00
MOTA		D2 PHE A 229	65.738	-5.883	7.666	1.00 2.00
ATOM		E1 PHE A 229	65.554	-8.320	8.932	1.00 2.00
ATOM	•	E2 PHE A 229	66.176	-6.037	8.988	1.00 2.82
ATOM			66.077	-7.261	9.604	1.00 2.00
MOTA			64.490	-7.978	2.753	1.00 11.80
ATOM			63.837	-7.910	1.452	1.00 13.36
MOTA			62.368	-7.482	1.770	1.00 14.48
ATOM	859 C		61.665	-8.130	2.579	1.00 10.96
MOTA	860 0		63.860	-9.280	0.816	1.00 16.74
MOTA			63.290	-9.318	-0.548	1.00 27.61
ATOM				-10.261	-1.441	1.00 35.38
ATOM			64 070	-10.034	-2.674	1.00 41.54
ATOM				-11.222	-0.916	1.00 32.58
ATOM		000	61.932	-6.370	1.178	1.00 9.09
MOTA			60.600	-5.864	1.391	1.00 4.80
MOTA			59.713	-6.131	0.161	1.00 10.24
MOTA			60.172	-6.150	-0.995	1.00 7.89
MOTA			60.675	-4.380	1.744	1.00 2.00
MOTA	-		61.616	-4.131	2.925	1.00 2.00
MOTA			61.590	-2.674	3.343	1.00 2.00
ATOM		CD1 LEU A 231 CD2 LEU A 231	61.265	-5.003	4.067	1.00 2.00
MOTA			58.442	-6.422	0.433	1.00 13.69
ATOM		N GLN A 232 CA GLN A 232	57.479	-6.652	-0.625	1.00 9.36
ATOM			57.013	-5.267	-1.029	1.00 3.90
ATOM			56.990	-4.341	-0.224	1.00 2.00
MOTA		O GLN A 232 CB GLN A 232	56.346	-7.483	-0.081	1.00 19.91
MOTA		CG GLN A 232	56.628	-8.947	-0.167	1.00 32.45
ATOM		CD GLN A 232	56.867	-9.343	-1.593	1.00 42.33
ATOM		OE1 GLN A 232	55.978	-9.217	-2.448	1.00 50.57
ATOM		NE2 GLN A 232	58.081	-9.797	-1.881	1.00 50.87
MOTA		000	56.562		-2.255	1.00 2.20
MOTA		N PRO A 233 CA PRO A 233	56.151		-2.591	1.00 5.00
ATOM		C PRO A 233	54.990		-1.743	1.00 10.61
MOTA	885		54.036		-1.643	1.00 20.91
ATOM	886	O PRO A 233 CB PRO A 233	55.792		-4.065	1.00 2.00
MOTA	887		55.514		-4.331	1.00 3.25
ATOM	888-		56.265		-3.310	1.00 3.06
MOTA	889		55.063		-1.118	
MOTA	890	N GLY A 234 CA GLY A 234	53.966		-0.282	1.00 8.91
MOTA	891	C GLY A 234	54.322		1.160	1.00 7.37
MOTA	892		53.594		2.074	1.00 12.50
ATOM	893	O GLY A 234 N ALA A 235	55.466		1.365	1.00 7.79
ATOM	894	CA ALA A 235	55.970	- 050	2.709	1.00 7.87
MOTA	895 896	C ALA A 235	56.114		3.528	1.00 7.90
MOTA	896 897	O ALA A 235	56.27		2.983	1.00 11.97
MOTA	898	CB ALA A 235	57.29			
MOTA	0.50		_ · · 			

ATOM 999 N SER A 236						5.6.0		-1.708	4.840	1.00	2.00
AROM 901 C SER A 236 56.703 -0.779 7.002 1.00 2.05 AROM 902 O SER A 236 56.289 -1.739 7.637 1.00 2.05 AROM 902 O SER A 236 56.289 -1.739 7.637 1.00 2.00 2.00 AROM 903 CB SER A 236 54.428 0.440 6.934 1.00 14.87 AROM 905 N VAL A 237 57.667 0.014 7.451 1.00 3.00 3.00 AROM 906 CA VAL A 237 57.667 0.014 7.451 1.00 3.00 AROM 907 C VAL A 237 58.111 0.851 9.824 1.00 2.00 AROM 908 O VAL A 237 58.111 0.851 9.824 1.00 2.00 AROM 908 O VAL A 237 58.131 0.851 1.00 6.23 AROM 909 CB VAL A 237 58.030 2.039 9.517 1.00 2.00 AROM 909 CB VAL A 237 59.993 -1.945 7.823 1.00 4.04 AROM 911 CG2 VAL A 237 59.993 -1.945 7.823 1.00 4.04 AROM 911 CG2 VAL A 237 59.993 -1.945 7.823 1.00 2.00 AROM 912 N PHE A 238 58.139 0.410 11.078 1.00 2.00 AROM 913 CA PHE A 238 58.139 0.410 11.078 1.00 2.00 AROM 913 CA PHE A 238 58.991 0.410 11.078 1.00 2.00 AROM 915 O PHE A 238 58.991 0.040 11.343 1.00 7.14 AROM 915 O PHE A 238 55.7934 1.306 12.184 1.00 3.08 AROM 916 CB PHE A 238 55.7934 1.306 12.184 1.00 2.00 AROM 917 CG PHE A 238 55.7934 1.306 12.184 1.00 2.00 AROM 917 CG PHE A 238 55.793 0.917 13.443 1.00 7.14 AROM 918 CDI PHE A 238 55.793 0.917 12.931 1.00 2.00 AROM 917 CG PHE A 238 55.793 0.217 12.931 1.00 2.00 AROM 918 CDI PHE A 238 55.793 0.0217 12.931 1.00 2.00 AROM 912 CZ PHE A 238 55.563 -0.069 14.275 1.00 2.00 AROM 912 CZ PHE A 238 55.047 -1.276 14.675 1.00 2.00 AROM 920 CEI PHE A 238 55.047 -1.276 14.675 1.00 2.00 AROM 920 CEI PHE A 238 55.047 -1.276 14.675 1.00 2.00 AROM 920 CZ PHE A 238 55.047 -1.276 14.675 1.00 2.00 AROM 920 CZ PHE A 238 55.047 -1.276 14.675 1.00 2.00 AROM 920 CZ PHE A 238 55.047 -1.276 14.675 1.00 2.00 AROM 920 CZ PHE A 238 55.047 -1.276 14.675 1.00 2.00 AROM 920 CZ PHE A 238 55.047 -1.276 14.675 1.00 2.00 AROM 920 CZ PHE A 238 55.047 -1.276 14.675 1.00 2.00 AROM 920 CZ PHE A 238 55.047 -1.276 14.675 1.00 2.00 AROM 920 CZ PHE A 238 55.047 -1.276 14.675 1.00 2.00 AROM 920 CZ PHE A 238 55.047 -1.276 14.675 1.00 2.00 AROM 920 CZ PHE A 238 55.047 -1.276 14.675 1.00 2.00 AROM 920 CZ PHE A 238 55.047 -1.276 14.675 1.00 2.00 AROM	MOTA			SER A	A 236						
ATOM 902 O SER A 236 56.269 -1.739 7.637 1.00 2.00 ATOM 903 CB SER A 236 54.841 0.187 5.616 1.00 2.00 ATOM 904 OG SER A 236 54.841 0.187 5.616 1.00 2.00 ATOM 905 N VAL A 237 57.667 0.014 7.451 1.00 6.23 ATOM 905 N VAL A 237 58.262 -0.240 8.751 1.00 2.00 ATOM 907 C VAL A 237 58.262 -0.240 8.751 1.00 2.00 ATOM 908 O VAL A 237 58.262 -0.240 8.751 1.00 2.00 ATOM 908 O VAL A 237 58.067 0.631 8.563 1.00 8.48 ATOM 910 CG1 VAL A 237 59.933 -1.945 7.823 1.00 4.04 ATOM 910 CG1 VAL A 237 59.933 -1.945 7.823 1.00 4.04 ATOM 911 CG2 VAL A 237 60.546 0.387 7.741 1.00 2.00 ATOM 912 N PHE A 238 55.983 0.914 11.078 1.00 2.00 ATOM 913 CA PHE A 238 55.783 0.914 11.078 1.00 2.00 ATOM 915 O PHE A 238 55.793 0.914 13.443 1.00 7.14 ATOM 916 CB PHE A 238 55.953 0.914 13.443 1.00 7.14 ATOM 916 CB PHE A 238 55.563 0.914 13.443 1.00 7.14 ATOM 917 CG PHE A 238 55.563 0.914 13.443 1.00 2.00 ATOM 918 CD1 PHE A 238 55.563 0.914 13.443 1.00 2.00 ATOM 919 CD2 PHE A 238 55.563 0.994 12.2480 1.00 4.24 ATOM 916 CD PHE A 238 55.563 0.994 13.443 1.00 2.00 ATOM 917 CG PHE A 238 55.563 0.994 14.275 1.00 2.00 ATOM 919 CD2 PHE A 238 55.563 0.099 14.275 1.00 2.00 ATOM 919 CD2 PHE A 238 55.563 0.099 14.275 1.00 2.00 ATOM 920 CE1 PHE A 238 55.563 0.099 14.275 1.00 2.00 ATOM 921 CE2 PHE A 238 55.563 0.099 14.275 1.00 2.00 ATOM 922 CZ PHE A 238 54.603 -1.950 12.434 1.00 2.00 ATOM 923 N VAL A 239 59.298 1.913 14.152 1.00 11.30 ATOM 924 CA VAL A 239 59.298 1.913 14.152 1.00 11.30 ATOM 925 C VAL A 239 59.298 1.913 14.152 1.00 11.30 ATOM 926 C VAL A 239 59.298 1.913 1.714 16.50 9 1.00 16.17 ATOM 927 CB VAL A 239 59.298 1.913 1.714 16.50 9 1.00 16.17 ATOM 928 CG1 VAL A 239 59.298 1.913 1.714 1.00 2.00 11.30 ATOM 930 CA AND 240 58.250 0.739 18.527 1.00 13.15 ATOM 931 CA AND 240 58.250 0.739 18.527 1.00 13.15 ATOM 932 CA AND 240 58.250 0.739 18.527 1.00 13.15 ATOM 932 CA AND 240 58.250 0.739 18.527 1.00 13.15 ATOM 933 CA VAL A 239 56.630 1.00 5.64 1.00 15.66 AND 939 CA VAL A 241 59.459 1.00 3.54 1.00 1.00 15.66 AND 939 CA VAL A 241 59.459 1.00 3.54 1.00 12.36 AND 9				SER A	A 236					1.00	2.05
ATOM 903 CB SER A 236				SEK A	A 236	-		-1.739	7.637		
ATOM 904 OG SER A 236 54.428 0.440 7.451 1.00 3.00 ATOM 905 N VAL A 237 57.667 0.014 7.451 1.00 3.00 ATOM 906 CA VAL A 237 58.262 -0.240 8.751 1.00 2.00 ATOM 907 C VAL A 237 58.030 2.039 9.517 1.00 2.00 ATOM 909 CO VAL A 237 58.030 2.039 9.517 1.00 2.00 ATOM 909 CB VAL A 237 59.023 -0.631 8.563 1.00 8.48 ATOM 910 CGI VAL A 237 59.023 -1.945 7.823 1.00 4.04 ATOM 911 CG2 VAL A 237 59.023 -1.945 7.823 1.00 4.04 ATOM 911 CG2 VAL A 237 59.923 -1.945 7.823 1.00 4.04 ATOM 911 CG2 VAL A 237 59.923 -1.945 7.823 1.00 4.04 ATOM 911 CG2 VAL A 238 58.139 0.410 11.078 1.00 2.00 ATOM 912 N PHE A 238 58.139 0.410 11.078 1.00 2.00 ATOM 914 C PHE A 238 58.7984 1.306 12.184 1.00 3.08 ATOM 916 CB PHE A 238 55.7984 1.306 12.184 1.00 7.14 ATOM 916 CB PHE A 238 55.739 0.217 12.931 1.00 2.00 ATOM 918 CD1 PHE A 238 55.339 -0.740 12.018 1.00 4.20 ATOM 918 CD1 PHE A 238 55.563 -0.069 14.275 1.00 2.00 ATOM 920 CE1 PHE A 238 55.563 -0.069 14.275 1.00 2.00 ATOM 921 CE2 PHE A 238 54.803 -1.950 12.434 1.00 2.00 ATOM 921 CE2 PHE A 238 55.563 -0.069 14.275 1.00 2.00 ATOM 922 CZ PHE A 238 55.047 -1.276 14.675 1.00 2.00 ATOM 922 CZ PHE A 238 54.803 -1.950 12.434 1.00 2.00 ATOM 922 CZ PHE A 238 54.803 -1.950 12.434 1.00 2.00 ATOM 921 CA2 ATOM 923 N VAL A 239 59.298 1.913 14.152 1.00 11.30 ATOM 925 C VAL A 239 59.073 1.714 16.509 1.00 16.17 ATOM 928 CGI VAL A 239 60.061 1.636 15.377 1.00 13.70 ATOM 927 CB VAL A 239 60.061 1.636 15.377 1.00 13.70 ATOM 928 CGI VAL A 239 61.917 0.733 15.677 1.00 11.30 ATOM 932 C ASN A 240 59.917 0.733 19.812 1.00 11.30 ATOM 932 C ASN A 240 59.917 0.733 19.812 1.00 11.07 ATOM 942 CA VAL A 239 61.917 2.349 16.956 1.00 4.11 ATOM 940 C CA ASN A 240 59.917 0.733 19.812 1.00 11.00 15.07 ATOM 931 CA ASN A 240 59.907 1.744 1.00 1.00 10.10 1.00 1.00 1.00 1.00 1				SER	A 236			0.187	5.616		
ATOM 905 N VAL A 237 57.667 0.014 1.00 6.23 ATOM 907 C VAL A 237 58.262 -0.240 8.751 1.00 6.23 ATOM 908 O VAL A 237 58.030 2.039 9.517 1.00 2.00 ATOM 908 O VAL A 237 58.030 2.039 9.517 1.00 2.00 ATOM 910 CG1 VAL A 237 59.993 -1.945 7.823 1.00 4.04 ATOM 911 CG2 VAL A 237 59.993 -1.945 7.823 1.00 4.04 ATOM 912 N PHE A 238 58.139 0.410 11.078 1.00 2.00 ATOM 913 CA PHE A 238 58.139 0.410 11.078 1.00 2.00 ATOM 916 CB PHE A 238 58.971 -0.263 13.750 1.00 4.30 ATOM 915 O PHE A 238 58.971 -0.263 13.750 1.00 4.30 ATOM 916 CB PHE A 238 55.723 0.217 12.931 1.00 2.00 ATOM 917 CG PHE A 238 55.5723 0.217 12.931 1.00 2.00 ATOM 919 CD2 PHE A 238 55.563 -0.069 14.275 1.00 2.00 ATOM 919 CD2 PHE A 238 55.563 -0.069 14.275 1.00 2.00 ATOM 920 CE1 PHE A 238 55.563 -0.069 14.275 1.00 2.00 ATOM 921 CC2 PHE A 238 55.6464 1.495 12.480 1.00 4.24 ATOM 920 CE1 PHE A 238 55.563 -0.069 14.275 1.00 2.00 ATOM 921 CC2 PHE A 238 55.563 -0.069 14.275 1.00 2.00 ATOM 922 CC2 PHE A 238 55.6464 1.495 12.480 1.00 2.00 ATOM 923 N VAL A 239 59.998 1.913 14.152 1.00 1.00 ATOM 924 CA VAL A 239 59.998 1.913 14.152 1.00 13.07 ATOM 925 CC VAL A 239 59.998 1.913 14.152 1.00 13.07 ATOM 926 CO VAL A 239 59.998 1.913 14.152 1.00 13.07 ATOM 927 CB VAL A 239 60.061 1.636 1.537 1.00 13.07 ATOM 928 CG1 VAL A 239 61.917 2.349 16.956 1.00 4.11 ATOM 930 N ASN A 240 59.178 0.7881 17.427 1.00 13.75 ATOM 931 CA ASN A 240 59.178 0.7881 17.427 1.00 13.75 ATOM 932 C CANA A 239 61.917 2.349 16.956 1.00 4.11 ATOM 933 O ASN A 240 59.178 0.7881 17.427 1.00 13.75 ATOM 934 CB ASN A 240 59.178 0.7881 17.427 1.00 13.75 ATOM 935 CG ASN A 240 59.178 0.7881 17.427 1.00 13.75 ATOM 937 ND2 ASN A 240 59.178 0.7881 17.427 1.00 13.686 ATOM 938 N VAL A 241 58.54 0.799 1.004 1.00 3.05 ATOM 939 CA VAL A 241 58.54 0.004 1.006 2.007 ATOM 931 CA ASN A 240 59.188 0.004 1.007 0.005 1.006 1.007 ATOM 930 N ASN A 240 59.188 0.004 1.007 0.005 1.006 1.007 ATOM 931 CA ASN A 240 59.188 0.006 1.006 6.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.				SER	A 236	54.4	128	0.440			
ATOM 906 CA VAL A 237				VAL	A 237	57.6					
ATOM 907 C VAL A 237 58.111 0.851 9.824 1.00 2.00 ATOM 908 0 VAL A 237 58.030 2.039 9.517 1.00 2.00 ATOM 909 CB VAL A 237 59.830 2.039 9.517 1.00 2.00 ATOM 910 CGI VAL A 237 59.823 -0.631 8.563 1.00 8.48 ATOM 911 CG2 VAL A 237 60.546 0.387 7.741 1.00 2.00 ATOM 912 N PHE A 238 58.139 0.410 11.078 1.00 2.00 ATOM 912 N PHE A 238 58.139 0.410 11.078 1.00 2.00 ATOM 914 C PHE A 238 58.783 0.914 13.443 1.00 7.14 ATOM 915 0 PHE A 238 58.783 0.914 13.443 1.00 7.14 ATOM 915 0 PHE A 238 58.783 0.914 13.443 1.00 7.14 ATOM 915 CG PHE A 238 55.783 0.914 13.443 1.00 7.14 ATOM 917 CG PHE A 238 55.723 0.217 12.931 1.00 2.00 ATOM 918 CDI PHE A 238 55.563 -0.069 14.275 1.00 2.00 ATOM 919 CD2 PHE A 238 55.563 -0.069 14.275 1.00 2.00 ATOM 920 CEI PHE A 238 55.563 -0.069 14.275 1.00 2.00 ATOM 921 CE2 PHE A 238 55.644 1.495 12.434 1.00 2.00 ATOM 921 CE2 PHE A 238 55.663 -0.069 14.275 1.00 2.00 ATOM 921 CE2 PHE A 238 55.663 -0.069 14.275 1.00 2.00 ATOM 921 CE2 PHE A 238 55.663 -1.050 12.134 1.00 2.00 ATOM 921 CE2 PHE A 238 55.663 -1.050 12.134 1.00 2.00 ATOM 922 CZ PHE A 238 54.674 -2.214 13.755 1.00 2.00 ATOM 922 CZ PHE A 238 54.674 -2.214 13.755 1.00 2.00 ATOM 922 CZ PHE A 238 54.674 -2.214 13.755 1.00 2.00 ATOM 925 C VAL A 239 59.298 1.913 14.152 1.00 11.30 ATOM 926 CG VAL A 239 59.298 1.913 14.152 1.00 11.30 ATOM 927 CB VAL A 239 59.298 1.913 14.152 1.00 11.30 ATOM 928 CG VAL A 239 60.061 1.636 15.377 1.00 13.70 ATOM 928 CG VAL A 239 61.149 2.713 15.677 1.00 13.70 ATOM 930 N ASN A 240 59.789 -0.051 19.861 1.00 2.02 1.94 ATOM 931 CA ASN A 240 59.798 -0.051 19.861 1.00 15.86 ATOM 932 C ASN A 240 59.798 -0.051 19.861 1.00 15.06 ATOM 933 C ASN A 240 59.798 -0.053 19.861 1.00 15.07 ATOM 935 C ASN A 240 59.798 -0.053 19.861 1.00 15.07 ATOM 936 CD VAL A 241 59.549 1.00 12.767 ATOM 940 C AND AND 940 C A				VAL .	A 237						
ATOM 908 O VAL A 237 58.030 2.003 9.517 00 8.48 ATOM 909 CB VAL A 237 59.923 -0.631 8.563 1.00 4.04 ATOM 910 CG1 VAL A 237 59.923 -1.945 7.823 1.00 4.04 ATOM 911 CG2 VAL A 237 60.546 0.387 7.741 1.00 2.00 ATOM 912 N PHE A 238 58.139 0.410 11.078 1.00 2.00 ATOM 913 CA PHE A 238 58.783 0.914 13.443 1.00 7.14 ATOM 915 O PHE A 238 58.783 0.914 13.443 1.00 7.14 ATOM 916 CB PHE A 238 55.723 0.217 12.931 1.00 4.24 ATOM 917 CG PHE A 238 55.723 0.217 12.931 1.00 2.00 ATOM 918 CD1 PHE A 238 55.723 0.217 12.931 1.00 2.00 ATOM 919 CD2 PHE A 238 55.563 -0.069 14.275 1.00 2.00 ATOM 910 CC2 PHE A 238 55.644 1.495 12.480 1.00 4.24 ATOM 920 CE1 PHE A 238 55.640 -1.950 12.434 1.00 2.00 ATOM 921 CE2 PHE A 238 55.647 -1.276 14.675 1.00 2.00 ATOM 921 CE2 PHE A 238 55.647 -1.276 14.675 1.00 2.00 ATOM 922 CZ PHE A 238 55.047 -1.276 14.675 1.00 2.00 ATOM 923 N VAL A 239 59.298 1.913 14.152 1.00 13.70 ATOM 924 CA VAL A 239 60.061 1.636 15.377 1.00 13.70 ATOM 927 CB VAL A 239 60.061 1.636 15.377 1.00 13.70 ATOM 928 CG1 VAL A 239 61.149 2.713 15.677 1.00 11.18 ATOM 929 CG2 VAL A 239 61.149 2.713 15.677 1.00 11.18 ATOM 930 N ASN A 240 59.176 0.739 18.527 1.00 13.15 ATOM 931 CA ASN A 240 59.176 0.739 18.527 1.00 13.15 ATOM 932 CA ASN A 240 59.176 0.739 18.527 1.00 13.15 ATOM 933 CA ASN A 240 59.176 0.739 18.527 1.00 13.15 ATOM 934 CB ASN A 240 59.176 0.739 18.527 1.00 13.15 ATOM 935 CG ASN A 240 59.176 0.739 18.527 1.00 13.15 ATOM 936 ODI ASN A 240 59.898 -0.305 19.861 1.00 2.02 ATOM 937 ND2 ASN A 240 59.898 -0.305 19.861 1.00 2.03 ATOM 938 N VAL A 241 59.895 -0.739 18.527 1.00 13.15 ATOM 936 CG ASN A 240 59.898 -0.305 19.861 1.00 2.02 ATOM 937 ND2 ASN A 240 59.979 -0.435 24.401 1.00 6.63 ATOM 937 ND2 ASN A 240 59.979 -0.435 24.401 1.00 6.63 ATOM 936 CG ASN A 240 59.979 -0.435 24.401 1.00 6.63 ATOM 937 ND2 ASN A 240 59.979 -0.435 24.401 1.00 6.63 ATOM 936 CG ASN A 240 59.979 -0.435 24.401 1.00 6.63 ATOM 937 ND2 ASN A 240 59.979 -0.435 24.401 1.00 6.63 ATOM 940 CG VAL A 241 59.895 -0.005 19.861 1.00 17.73 ATOM 940 CG VAL A 241 59.895 -0.005				VAL .	A 237						
ATOM 909 CB VAL A 237		908	0	VAL	A 237						
ATOM 910 CGI VAL A 237 ATOM 911 CG2 VAL A 237 ATOM 912 N PHE A 238 ATOM 913 CA PHE A 238 ATOM 914 C PHE A 238 ATOM 915 O PHE A 238 ATOM 916 CB PHE A 238 ATOM 916 CB PHE A 238 ATOM 917 CG PHE A 238 ATOM 918 CD1 PHE A 238 ATOM 919 CD2 PHE A 238 ATOM 919 CD2 PHE A 238 ATOM 919 CD2 PHE A 238 ATOM 920 CE1 PHE A 238 ATOM 921 CE2 PHE A 238 ATOM 921 CE2 PHE A 238 ATOM 921 CE2 PHE A 238 ATOM 922 CZ PHE A 238 ATOM 923 N VAL A 239 ATOM 924 CA VAL A 239 ATOM 925 C VAL A 239 ATOM 926 O VAL A 239 ATOM 927 CB VAL A 239 ATOM 928 CGI VAL A 239 ATOM 929 CG2 VAL A 239 ATOM 929 CG2 VAL A 239 ATOM 920 CGI PHE A 238 ATOM 921 CE2 PHE A 238 ATOM 922 CZ PHE A 238 ATOM 923 N VAL A 239 ATOM 924 CA VAL A 239 ATOM 925 C VAL A 239 ATOM 926 O VAL A 239 ATOM 927 CB VAL A 239 ATOM 928 CGI VAL A 239 ATOM 929 CGI VAL A 239 ATOM 929 CGI VAL A 239 ATOM 930 N ASN A 240 ATOM 931 CA SSN A 240 ATOM 931 CA SSN A 240 ATOM 932 C ASN A 240 ATOM 933 CA ASN A 240 ATOM 934 CB ASN A 240 ATOM 935 CG ASN A 240 ATOM 936 CD ASN A 240 ATOM 937 ND ASN A 240 ATOM 938 N VAL A 241 ATOM 939 CA VAL A 241 ATOM 930 CA ASN A 240 ATOM 940 CC ATHA A 241 ATOM 940 CC ATHA A 241 ATOM 940 CC ATHA A 241 ATOM 940 CC ATHA A 242 ATOM 940 CC ATHA A 241 ATOM 940 CC ATHA A 242 ATOM 940 C		909		VAL	A 237						
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ATOM 913 CA PHE A 238				VAL	A 237						
ATOM 914 C PHE A 238											
ATOM 915 O PHE A 238				PHE	A 230						7.14
ATOM 916 CB PHE A 238										1.00	4.30
ATOM 917 CG PHE A 238 55.723 0.217 12.931 1.00 2.00 ATOM 918 CD1 PHE A 238 55.563 -0.069 14.275 1.00 2.00 ATOM 919 CD2 PHE A 238 55.563 -0.069 14.275 1.00 2.00 ATOM 920 CE1 PHE A 238 55.563 -0.069 14.275 1.00 2.00 ATOM 921 CE2 PHE A 238 54.674 -1.276 14.675 1.00 2.00 ATOM 921 CC2 PHE A 238 54.674 -2.214 13.755 1.00 2.00 ATOM 922 CZ PHE A 238 54.674 -2.214 13.755 1.00 2.00 ATOM 924 CA VAL A 239 60.061 1.636 15.377 1.00 13.70 ATOM 925 C VAL A 239 60.061 1.636 15.377 1.00 13.70 ATOM 925 C VAL A 239 61.917 2.349 16.550 1.00 2.194 ATOM 928 CG1 VAL A 239 61.917 2.349 16.956 1.00 4.11 ATOM 928 CG1 VAL A 239 61.917 2.349 16.956 1.00 4.11 ATOM 929 CG2 VAL A 239 62.056 2.907 14.464 1.00 8.49 ATOM 931 CA ASN A 240 59.178 0.781 17.427 1.00 15.86 ATOM 932 C ASN A 240 59.178 0.781 17.427 1.00 15.86 ATOM 933 O ASN A 240 59.017 0.533 19.812 1.00 2.23 ATOM 934 CB ASN A 240 59.017 0.533 19.812 1.00 2.03 ATOM 935 CG ASN A 240 56.321 -0.584 19.365 1.00 27.67 ATOM 936 ODI ASN A 240 56.321 -0.584 19.365 1.00 27.67 ATOM 937 ND2 ASN A 240 56.321 -0.584 19.365 1.00 27.67 ATOM 938 N VAL A 241 58.732 1.276 20.857 1.00 3.35 ATOM 939 CR VAL A 241 58.534 0.815 23.280 1.00 2.03 ATOM 940 C VAL A 241 58.534 0.815 23.280 1.00 2.03 ATOM 943 CGI VAL A 241 58.534 0.815 23.280 1.00 5.64 ATOM 943 CGI VAL A 241 58.534 0.815 23.280 1.00 5.64 ATOM 943 CGI VAL A 241 58.534 0.815 23.280 1.00 5.64 ATOM 945 N THR A 242 58.374 0.174 25.601 1.00 12.35 ATOM 946 CA THR A 242 58.374 0.174 25.601 1.00 12.66 ATOM 947 C THR A 242 58.374 0.174 25.601 1.00 12.35 ATOM 946 CGI THR A 242 58.374 0.174 25.601 1.00 6.63 ATOM 945 N THR A 242 59.231 -0.626 26.595 1.00 9.05 ATOM 945 CGI THR A 242 58.374 0.174 25.601 1.00 6.63 ATOM 945 N THR A 242 58.374 0.174 25.601 1.00 6.63 ATOM 945 CGI THR A 242 58.374 0.174 25.601 1.00 6.63 ATOM 945 N THR A 242 59.231 -0.626 26.595 1.00 9.05 ATOM 945 CGI THR A 242 59.231 -0.626 26.595 1.00 9.05 ATOM 945 CGI THR A 242 59.231 -0.626 26.595 1.00 9.05 ATOM 945 CGI THR A 242 59.231 -0.626 26.595 1.00 9.05 ATOM 945 CGI THR A 242 59.231 -0.626								1.49			
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		95	8 0	D1 AS	P A 243	5	B.236	5 5.5	010 30.1	11 1.0	10.30

					7 150	5.938	28.300	1.00 16	5.69
MOTA	959	OD2	ASP A 243		7.158		25.121		5.76
MOTA	960		PRO A 244	_	7.854	5.403	24.425		2.00
MOTA	961		PRO A 244	_	8.295	6.604			4.42
MOTA	962	C	PRO A 244		8.375	7.772	25.283	1.00 1	
ATOM	963	0	PRO A 244		9.087	8.684	24.954	1.00	3.20
ATOM	964	CB	PRO A 244		7.255	6.849	23.384		8.68
ATOM	965		PRO A 244		6.089	6.012	23.816		
ATOM	966	CD	PRO A 244		6.655	4.832	24.505		6.08
ATOM	967	N	SER A 245	5	7.612	7.796	26.363		9.76
ATOM	968		SER A 245	5	57.660	8.956	27.248		9.87
ATOM	969	С	SER A 245		59.080	9.244	27.653	1.00 1	
ATOM	970	ō	SER A 245		59.343	10.198	28.384	1.00 1	
ATOM	971	CB	SER A 245		56.870	8.732	28.523		8.21
ATOM	972	ŌĞ	SER A 245	:	57.715	8.102	29.480	1.00 1	
ATOM	973	N	GLN A 246	1	60.018	8.424	27.214	1.00 1	
	974	CA	GLN A 246		61.358	8.723	27.632	1.00 1	
ATOM	975	C	GLN A 246		62.474	8.516	26.660		4.66
ATOM	976	0	GLN A 246		63.621	8.495	27.068		3.71
MOTA		CB	GLN A 246		61.655	7.990	28.928	1.00 1	
MOTA	977		GLN A 246		61.598	6.493	28.838	1.00 2	
MOTA	978	CG	GLN A 246		61.327	5.921	30.199	1.00 3	30.72
ATOM	979	CD	GLN A 246		61.639	4.759	30.479	1.00 3	30.05
ATOM	980	OE1	GLN A 246		60.739	6.754	31.074	1.00 3	32.48
MOTA	981	NE2			62.158	8.376	25.383	1.00	2.17
MOTA	982	N	VAL A 247		63.223	8.218	24.415	1.00	6.49
MOTA	983	CA	VAL A 247		63.733	9.657	24.405	1.00	9.51
MOTA	984	С	VAL A 247		62.991	10.524	24.839	1.00	7.87
ATOM	985	0	VAL A 247			7.803	22.989	1.00	6.19
MOTA	986	CB	VAL A 247		62.734	7.420	22.978	1.00	4.52
MOTA	987	CG1	VAL A 247		61.276	8.917	22.029	1.00	7.05
MOTA	988		VAL A 247		63.003		23.992	1.00	
MOTA	989	N	SER A 248		64.996	9.881	23.941	1.00	9.62
MOTA	990	CA	SER A 248		65.614		22.564	1.00	5.31
MOTA	991	С	SER A 248		65.463	11.818	21.570	1.00	4.91
MOTA	992	0	SER A 248		65.582	11.098	24.315	1.00	9.24
ATOM	993	CB	SER A 248		67.087	11.107	25.721	1.00	
ATOM	994	OG	SER A 248		67.223	11.172	22.510	1.00	2.00
ATOM	995	N	HIS A 249		65.168	13.118	21.242	1.00	2.00
MOTA	996	CA	HIS A 249		64.971		20.974	1.00	7.78
MOTA	997	С	HIS A 249		65.949			1.00	8.73
MOTA	998	0	HIS A 249		65.828		19.958 21.172	1.00	2.00
MOTA	999	CB	HIS A 249		63.587				2.00
MOTA	1000	CG	HIS A 249		62.516				7.60
MOTA	1001		HIS A 249		62.124			_	2.00
ATOM	1002	CD2	HIS A 249		61.703				2.00
ATOM	1003	· CE	HIS A 249		61.113				9.29
ATOM	1004	NE2	2 HIS A 249		60.836				8.42
MOTA	1005		GLY A 250		66.891				
ATOM	1006		GLY A 250		67.860				8.13 11.58
MOTA	1007	С	GLY A 250		68.408				12.84
ATOM	1008	0	GLY A 250		68.440				
MOTA	1009		THR A 251		68.859				9.58
ATOM	1010		THR A 251		69.321				6.02
ATOM	1011		THR A 251		70.340				4.99
ATOM	1012		THR A 251		71.222				8.64
ATOM	1013				69.913	3 18.136			7.15
ATOM	1014	1 OG	1 THR A 251		71.165	5 .17.823			10.44
ATOM	1015		2 THR A 251		70.133	3 19.17			7.76
ATOM	1010	-	GLY A 252		70.190		3 16.94		2.00
ATOM	101				71.130		9 16.742		8.54
	101		GLY A 252		70.97			3 1.00	15.63
MOTA	TOT		011 11 232			-			

» III OM	1019	^	GLY A 2	52	71.576	11.514	17.199	1.00	7.21
ATOM ATOM	1020	N O	PHE A 2	53	70.116	12.555	18.547	1.00	
ATOM	1021	CA	PHE A 2		69.965	11.356	19.337	1.00	
ATOM	1022	C	PHE A 2	253	69.169	10.196	18.741	1.00	
ATOM	1023	ō	PHE A 2	253	69.731	9.114	18.548	1.00	
ATOM	1024	CB	PHE A 2	253	69.397	11.745	20.652	1.00	9.29
ATOM	1025	CG	PHE A 2	253	70.413	12.208	21.601	1.00	6.53
ATOM	1026	CD1	PHE A 2	253	71.356	11.309	22.103	1.00	4.13
ATOM	1027	CD2	PHE A 2	253	70.397	13.523	22.049	1.00	2.00
ATOM	1028	CE1	PHE A 2	253	72.258	11.722	23.052	1.00	2.00
ATOM	1029	CE2	PHE A 2	253	71.277	13.948	22.982	1.00	2.00
ATOM	1030	CZ	PHE A 2	253	72.213	13.058	23.497	1.00	2.00
ATOM	1031	N	THR A 2		67.882	10.403	18.444	1.00	
ATOM	1032	CA	THR A 2	254	67.042	9.325	17.906	1.00	
MOTA	1033	С	THR A		66.683	9.494	16.426	1.00	
MOTA	1034	0	THR A	254	66.119	10.510	16.041	1.00	6.30
MOTA	1035	CB	THR A		65.734	9.181	18.738 20.085	1.00	2.00
MOTA	1036		THR A	254	66.041	8.772	18.092	1.00	7.22
MOTA	1037	CG2			64.835	8.163	15.590	1.00	6.32
MOTA	1038	И	SER A		67.036	8.511 8.603	14.166	1.00	2.00
MOTA	1039	CA	SER A		66.745	7.270	13.681	1.00	2.00
MOTA	1040	С	SER A		66.302 66.443	6.287	14.409	1.00	2.00
ATOM	1041	0	SER A		67.985	9.039	13.402		10.45
MOTA	1042	CB	SER A	200	69.171	8.696	14.098	1.00	17.86
MOTA	1043	OG	SER A PHE A		65.831	7.217	12.439	1.00	2.00
MOTA	1044	N	PHE A		65.282	5.975	11.889	1.00	3.04
ATOM	1045	CA	PHE A		65.428	6.126	10.386	1.00	5.89
MOTA	1046	C 0	PHE A		65.341	7.259	9.875	1.00	6.10
ATOM	1047 1048	CB	PHE A		63.797	5.918	12.354	1.00	2.97
ATOM ATOM	1049	CG	PHE A		62.909	4.932	11.624	1.00	3.04
ATOM	1050	CD:			63.320	3.641	11.339	1.00	9.10
MOTA	1051		PHE A		61.617	5.280	11.269	1.00	3.21
MOTA	1052		PHE A		62.440	2.702	10.704	1.00	4.41
ATOM	1053		PHE A		60.743	4.336	10.631	1.00	2.00
ATOM	1054	CZ	PHE A		61.164	3.060	10.358	1.00	2.00 2.00
ATOM	1055	N	GLY A		65.668	5.028	9.668	1.00	
MOTA	1056	CA	GLY A		65.817	5.161	8.224	1.00	
MOTA	1057	С	GLY A		66.164	3.926	7.416 7.990	1.00	
MOTA	1058		GLY A		66.520	2.891	6.087	1.00	
MOTA	1059		LEU A		66.072	4.014 2.848	5.269	1.00	
MOTA	1060			258	66.382 66.915	3.273	3.903	1.00	
MOTA	1061		LEU A LEU A		66.630		3.416	1.00	15.24
ATOM	1062		_		65.138	1.950	5.087	1.00	
MOTA	1063			258	63.959		4.410	1.00	
ATOM	1064				64.054			1.00	2.02
ATOM	1065 1066		2 LEU A		62.656			1.00	
MOTA	1067		LEU A	259	67.734			1.00	11.56
ATOM ATOM	1068				68.298			1.00	11.19
MOTA	1069		LEU A	259	68.212			1.00	11.36
MOTA	1070		LEU A	259	68.440		1.744		14.62
MOTA	1071				69.771	3.070		_	12.90
MOTA	1072				70.630				10.06
ATOM	1073	3 CI	1 LEU A		71.405				
ATOM	1074		2 LEU A	259	71.528				2.00
ATOM	1075		LYS A	260	67.886				0 10.51
ATOM	1076				67.750				0 10.49 0 12.93
ATOM	107		LYS A		69.058			_	0 16.07
MOTA	107	8 O	LYS A	A 260	69.685	5 1.043	1 -2.179	, 1.0	

ATOM	1079	СВ	LYS A	260	66.566	0.636	-1.853	1.00	5.98
ATOM	1080	CG	LYS A		66.336	-0.387	-2.920	1.00	2.00
ATOM	1081	CD	LYS A		64.986	-0.220	-3.516	1.00	2.93
ATOM	1082	CE	LYS A	260	64.774	-1.349	-4.484		13.84
ATOM	1083	NZ	LYS A		65.818	-1.218	-5.562	1.00	
ATOM	1084	N	LEU A		69.439	-1.169	-1.813	1.00	
ATOM	1085	CA	LEU A		70.639	-1.572	-2.548	1.00	11.19
ATOM	1086	C.	LEU A		70.370	-1.714	-4.050	1.00	17.53
ATOM	1087	Ö	LEU A		69.302	-2.284	-4.382	1.00	18.86
ATOM	1088	СВ	LEU A		71.116	-2.911	-2.039	1.00	6.96
ATOM	1089	CG	LEU A		70.715	-3.118	-0.592	1.00	10.40
ATOM	1090		LEU A		71.467	-4.327	0.009	1.00	13.14
ATOM	1091		LEU A		70.984	-1.805	0.188	1.00	8.72
ATOM	1092	OT	LEU A		71.223	-1.294	-4.882	1.00	23.28
ATOM	1093	N		119	80.278	2.961	-10.613	0.00	33.41
ATOM	1094	CA		119	81.386	1.997	-10.875	0.00	31.54
	1094	C	ASN B	119	82.479	2.094	-9.815	0.00	25.43
ATOM	1095	0	ASN B		82.905	1.075	-9.262	0.00	26.65
ATOM ATOM	1090	СВ	ASN B		81.986		-12.261		39.42
	1097	CG	ASN B		82.303		-12.997	0.00	45.19
MOTA			ASN B		83.448		-13.021		49.11
ATOM	1099		ASN B		81.284		-13.602		49.11
MOTA	1100	N	PRO B		82.957	3.318	-9.525		15.87
MOTA	1101	CA	PRO B		84.009	3.443	-8.506	1.00	11.66
ATOM	1102	C	PRO 3		83.420	3.385	-7.136	1.00	6.70
ATOM	1103	0	PRO B	_	82.688	4.277	-6.742		12.39
ATOM	1104		PRO B		84.646	4.824	-8.761	1.00	2.00
MOTA	1105 1106	CB CG	PRO B		83.561	5.624	-9.374	1.00	9.66
ATOM	1100	CD	PRO B		82.600		-10.104		13.67
ATOM		N	GLN B		83.735	2.370	-6.370	1.00	2.36
MOTA	1108 1109	CA	GLN B		83.191	2.349	-5.026	1.00	7.90
ATOM	1110	CA	GLN B		83.906	3.329	-4.080		10.45
MOTA	1111	0	GLN B		85.134	3.302	-3.981		14.69
MOTA	1112	СВ	GLN B		83.277	0.939	-4.504	1.00	7.85
MOTA MOTA	1113	CG	GLN B		82.934	-0.018	-5.615		23.34
ATOM	1114	CD	GLN E		81.672	-0.796		1.00	32.30
MOTA	1115	OE1			80.582	-0.230		1.00	43.28
ATOM	1116	NE2			81.807	-2.108		1.00	37.73
ATOM	1117	N	ILE E		83.152	4.179		1.00	
ATOM	1118	CA	ILE E		83.772	5.114		1.00	2.00
ATOM	1119	C	ILE E		83.447	4.665		1.00	2.00
ATOM	1120	Ö	ILE E		82.326	4.668		1.00	9.59
ATOM	1121	СВ	ILE E		83.275	6.514		1.00	2.00
ATOM	1122		L ILE E		83.925	7.105	-3.858	1.00	3.72
ATOM	1123		ILE E		83.758	7.360		1.00	2.00
ATOM	1124		I ILE E		83.054	7.378	-4.949	1.00	2.00
ATOM	1125	N	ALA F	3 123	84.408	4.248		1.00	3.58
MOTA	1126	CA			84.112	3.777		1.00	3.42
ATOM	1127	C	ALA I		85.326			1.00	.7.86
ATOM	1128	Ö	ALA I		86.428			1.00	11.59
ATOM	1129	СВ	ALA I		83.780			1.00	2.21
ATOM	1130	N	ALA I		85.148			1.00	4.01
ATOM	1131	CA			86.279			1.00	2.67
ATOM	1132	C	ALA I		86.089			1.00	
ATOM	1133	Ö	ALA		85.164			1.00	10.04
ATOM	1134	СВ		3 124	86.573			1.00	2.00
ATOM	1135	N		B 125	86.979			1.00	6.53
ATOM	1136			B 125	86.914			1.00	3.79
ATOM	1137			B 125	88.247			1.00	2.00
MOTA	1138	Ö		B 125	89.262				2.00
111011		Ü							

ATOM	1139	CB	HIS B	125	86.723	0.851	7.401	1.00 2.00
ATOM	1140	CG				0.349	8.761	1.00 2.00
				125	86.374			
MOTA	1141	NDl	HIS B	125	85.162	0.600	9.348	1.00 2.40
ATOM	1142	CD2	HIS B	125	87.109	-0.302	9.686	1.00 7.74
ATOM	1143	CEI	HIS B	125	85.157	0.127	10.581	1.00 3.81
ATOM	1144	NE2	HIS B	125	86.333	-0.423	10.816	1.00 2.00
MOTA	1145	N	VAL B	126	88.258	3.559	8.988	1.00 2.11
ATOM	1146	CA	VAL B	126	89.525	3.973	9.582	1.00 5.25
MOTA	1147	С		126	89.572	3.561	11.050	
ATOM	1148	0	VAL B	126	88.567	3.545	11.721	1.00 8.41
ATOM	1149	CB		126	89.735	5.499	9.497	1.00 4.54
MOTA	1150	CGT	VAL B	126	89.840	5.973	8.033	1.00 2.00
ATOM	1151	CG2	VAL B	126	88.627	6.183	10.236	1.00 3.18
		N	ILE B	127	90.761	3.289	11.557	1.00 4.63
ATOM	1152							
ATOM	1153	CA	ILE B	127	90.930	2.815	12.902	1.00 2.00
ATOM	1154	С	ILE B	127	91.208	3.886	13.928	1.00 2.46
ATOM	1155	0	ILE B	127	91.911	4.830	13.661	1.00 2.15
ATOM	1156	CB	ILE B	127	92.057	1.855	12.924	1.00 2.00
ATOM	1157	CG1	ILE B	127	91.651	0.563	12.216	1.00 2.00
ATOM	1158	CG2	ILE B	127	92.443	1.579	14.355	1.00 11.26
ATOM	1159	CD1	ILE B	127	90.776	0.747	11.001	1.00 2.00
ATOM	1160	N	SER B	128	90.668	3.713	15.125	1.00 6.96
ATOM	1161	CA	SER B	128	90.836	4.679	16.199	1.00 6.32
MOTA	1162	С	SER B	128	92.278	4.822	16.496	1.00 6.97
	1163		SER B		93.017	3.850	16.374	1.00 10.18
ATOM		0		128				
ATOM	1164	CB	SER B	128	90.140	4.205	17.466	1.00 7.02
MOTA	1165	OG	SER B	128	90.942	3.306	18.206	1.00 2.48
ATOM	1166	N	GLU B	129	92.657	6.032	16.902	1.00 9.98
ATOM	1167	CA	GLU B	129	94.029	6.391	17.254	1.00 9.69
ATOM	1168	С	GLU B	129	94.089	7.314	18.463	1.00 5.45
ATOM	1169	0	GLU B	129	93.586	8.439	18.417	
ATOM	1170	CB	GLU B	129	94.724	7.106	16.078	1.00 13.88
MOTA	1171	CG	GLU B	129	96.264	7.178	16.259	1.00 16.62
ATOM	1172	CD	GLU B	129	96.998	6.141	15.430	1.00 20.65
ATOM	1173	OE1	GLU B	129	96.690	4.940	15.553	1.00 19.99
ATOM	1174	OE2	GLU B	129	97.885	6.528	14.640	1.00 28.20
ATOM	1175	N	ALA B	130	94.731	6.870	19.535	1.00 2.00
MOTA	1176	CA	ALA B	130	94.839	7.716	20.713	1.00 2.24
ATOM	1177	С	ALA B		95.667	8.953	20.426	1.00 8.45
ATOM	1178	0		130	96.446	8.979	19.501	1.00 19.14
ATOM	1179	CB	ALA B	130	95.452	6.959	21.823	1.00 2.00
ATOM	1180	N	SER B	131	95.531	9.998	21.206	1.00 17.54
ATOM	1181	CA	SER B	131	96.330	11.180	20.910	1.00 27.56
ATOM	1182	С	SER B	131	96.422	12.148	22.078	1.00 30.71
	1183	_	SER B		95.418		22.699	
ATOM		0				12.464		1.00 32.46
ATOM	1184	CB	SER B	131	95.770	11.895	19.669	1.00 28.54
ATOM	1185	OG	SER B		95.392	13.232	19.957	1.00 33.89
							22.338	
ATOM	1186	N	SER B		97.637	12.630		1.00 37.29
ATOM	1187	CA	SER B	132	97.941	13.551	23.445	1.00 40.98
ATOM	1188	С	SER B	132	97.367	14.946	23.230	1.00 40.37
ATOM	1189	0	SER B		97.170	15.717	24.185	1.00 34.30
ATOM	1190	CB	SER B	132	99.461	13.632	23.622	1.00 43.17
MOTA	1191	OG	SER B		100.123	12.861	22.624	1.00 45.20
MOTA	1192	N	LYS B		97.100	15.244	21.961	1.00 43.16
ATOM	1193	CA	LYS B	133	96.529	16.523	21.557	1.00 45.59
ATOM	1194	C	LYS B		95.402	16.915	22.512	1.00 46.14
ATOM	1195	0	LYS B	133	95.039	16.159	23.415	1.00 43.75
ATOM	1196	CB	LYS B	133	95.998	16.423	20.113	1.00 43.86
ATOM	1197	CG	LYS B		96.846	17.155	19.089	1.00 50.50
MOTA	1198	CD	LYS B	133	98.336	17.119	19.474	1.00 58.01

MOTA	1199	CE	LYS !	в	133	98.760	18.329	20.322	1.00	59.35
	1200	NZ	LYS		133	99.366	17.939	21.638	1.00	60.61
MOTA								22.344		47.80
MOTA	1201	N	THR 1		134	94.859	18.108			
ATOM	1202	CA	THR 1	В	134	93.763	18.507	23.213		50.86
ATOM	1203	С	THR :	В	134	92.518	18.857	22.420	1.00	49.91
	1204	Õ	THR		134	92.393	19.960	21.873	1.00	51.92
ATOM										53.60
MOTA	1205	CB	THR		134	94.140	19.700	24.089		
ATOM	1206	OG1	THR :	В	134	95.560	19.710	24.285		58.43
ATOM	1207	CG2	THR	В	134	93.429	19.607	25.445	1.00	52.01
	1208	N	THR		135	91.605	17.899	22.349	1.00	45.66
ATOM								21.637		42.36
MOTA	1209	CA	THR		135	90.356	18.093			
ATOM	1210	С	THR	В	135	89.449	17.021	22.125		43.18
MOTA	1211	0	THR	В	135	89.909	16.061	22.744	1.00	47.38
	1212	СВ	THR		135	90.457	17.864	20.123	1.00	38.55
ATOM						91.463	16.888	19.838		31.63
MOTA	1213	OG1			135					
ATOM	1214	CG2	THR			90.735	19.165	19.405		38.66
MOTA	1215	N	SER	В	136	88.167	17.186	21.823	1.00	39.65
ATOM	1216	CA	SER		136	87.163	16.213	22.190	1.00	32.03
					136	86.881	15.511	20.882	1 00	28.32
MOTA	1217	С	SER							
ATOM	1218	0	SER		136	86.090	14.584	20.870		32.35
MOTA	1219	CB	SER	В	136	85.911	16.911	22.638		30.83
ATOM	1220	OG	SER		136	85.479	17.714	21.558	1.00	31.91
		N	VAL		137	87.499	16.000	19.790		19.82
ATOM	1221									10.08
MOTA	1222	CA	VAT		137	87.368	15.432	18.430		
MOTA	1223	С	VAL	В	137	88.353	14.281	18.284	1.00	5.87
ATOM	1224	0	VAL	В	137	89.535	14.469	18.458	1.00	2.53
ATOM	1225	СВ	VAL		137	87.675	16.470	17.358	1.00	2.46
					137	88.771	17.286	17.799	1.00	6.31
MOTA	1226	CGl								2.70
MOTA	1227	CG2			137	88.049	15.812	16.071	1.00	
MOTA	1228	N	LEU	В	138	87.837	13.088	18.007	1.00	7.89
MOTA	1229	CA	LEU	В	138	88.644	11.889	17.922	1.00	9.18
ATOM	1230	С	LEU		138	89.390	11.762	16.656	1.00	13.48
			LEU		138	88.839	12.091	15.594	1.00	9.84
MOTA	1231	0								7.96
MOTA	1232	CB	LEU			87.787	10.625	18.071	1.00	
MOTA	1233	CG	LEU		138	86.728	10.352	19.147	1.00	6.51
ATOM	1234	CD1	LEU	В	138	85.997	9.106	18.648	1.00	9.57
ATOM	1235	CD2			138	87.307	10.125	20.585	1.00	2.00
			GLN			90.613	11.205	16.815		19.59
MOTA	1236	N							1.00	
MOTA	1237	CA	GLN		139	91.606	10.930	15.767		
MOTA	1238	С	GLN	В	139	91.345	9.571	15.128		19.42
MOTA	1239	0	GLN	В	139	90.664	8.714	15.687	1.00	26.80
ATOM	1240	СВ		В	139	93.016	10.887	16.366	1.00	23.89
		CG	GLN	В	139	93.494	12.160	17.011	1 00	26.84
MOTA	1241						13.105	15.980		36.67
MOTA	1242	CD			139	93.987				
ATOM	1243		. GLN			94.947	12.804	15.243		38.80
ATOM	1244	NE2	GLN	В	139	93.334	14.260	15.889		39.18
ATOM	1245	N	TRP	В	140	91.930	9.347	13.972	1.00	17.01
	1246	CA	TRP			91.735	_ 8.090	13.283		17.35
MOTA							7.861			18.96
ATOM	- 1247	С	TRP			92.966		12.467		
ATOM	1248	0	TRP	В	140	93.597	8.810	12.012		23.09
MOTA	1249	CB	TRP	В	140	90.525	8.169	12.361	1.00	12.43
ATOM	1250	CG			140	89.373	8.629	13.085	1.00	
							9.920	13.255	1.00	
MOTA	1251		TRP			88.979				
MOTA	1252	CD2	TRP			88.487	7.828	13.856	1.00	
ATOM	1253	NE:	L TRP	В	140	87.907	9.975	14.086	1.00	
ATOM	1254		TRP			87.583	8.698	14.480	1.00	9.42
	1255	CE			140	88.377	6.448	14.088	1.00	
MOTA							8.246	15.325	1.00	
MOTA	1256	CZ			140	86.573				
MOTA	1257		3 TRP			87.374	5.990	14.925		16.83
ATOM	1258	CH2	2 TRP	В	140	86.483	6.893	15.535	1.00	17.94
				_						

						6.595	12.278	1.00 19:24
ATOM	1259		ALA B 141		93.304		11.511	1.00 16.22
MOTA	1260		ALA B 141		94.478	6.213		1.00 10.22
ATOM	1261	C .	ALA B 141		94.080	5.252	10.394	
ATOM	1262	0	ALA B 141		93.189	4.417	10.562	1.00 10.39
ATOM	1263	СВ	ALA B 141		95.558	5.550	12.479	1.00 11.99
ATOM	1264		GLU B 142		94.757	5.380	9.264	1.00 10.28
ATOM	1265		GLU B 142		94.520	4.515	8.117	1.00 6.23
ATOM	1266	C	GLU B 142		95.476	3.304	8.243	1.00 2.00
ATOM	1267	Ö	GLU B 142		96.301	3.077	7.367	1.00 2.00
	1268	СВ	GLU B 142		94.821	5.318	6.869	1.00 2.00
MOTA	1269	CG	GLU B 142		94.030	4.983	5.704	1.00 5.63
ATOM		CD	GLU B 142		94.353	5.927	4.568	1.00 13.42
MOTA	1270	OE1	GLU B 142		94.122	7.144	4.796	1.00 8.81
MOTA	1271	OE2	GLU B 142		94.837	5.449	3.482	1.00 16.34
MOTA	1272		LYS B 143		95.366	2.560	9.347	1.00 2.00
MOTA	1273	N	LYS B 143		96.209	1.391	9.600	1.00 2.00
MOTA	1274	CA	LYS B 143		95.430	0.107	9.813	1.00 2.00
MOTA	1275	С	LYS B 143		94.295	-0.001	9.374	1.00 2.09
MOTA	1276	0			97.093	1.602	10.804	1.00 2.00
MOTA	1277	CB	LYS B 143	•	96.429	2.327	11.879	1.00 8.90
MOTA	1278	CG	LYS B 143		97.278	2.298	13.115	1.00 9.58
MOTA	1279	CD	LYS B 143		97.753	3.685	13.445	1.00 2.42
MOTA	1280	CE	LYS B 143		98.897	3.594	14.398	1.00 2.47
MOTA	1281	NZ	LYS B 143		96.058	-0.890	10.433	1.00 2.00
MOTA	1282	N	GLY B 144		95.370	-2.152	10.678	1.00 2.00
MOTA	1283	CA	GLY B 144			-2.132	9.497	1.00 2.00
ATOM	1284	С	GLY B 144		94.507	-2.052	8.413	1.00 8.21
MOTA	1285	0	GLY B 144		94.752	-3.385	9.690	1.00 2.00
MOTA	1286	N	TYR B 145		93.497	-3.806	8.609	1.00 2.00
MOTA	1287	CA	TYR B 145		92.592	-2.697	8.302	1.00 7.35
MOTA	1288	С	TYR B 145		91.583		8.584	1.00 12.70
ATOM	1289	0	TYR B 145		90.383	-2.825 -5.019	9.031	1.00 2.00
MOTA	1290	CB	TYR B 145		91.802	~5.791	7.870	1.00 2.00
MOTA	1291	CG	TYR B 145		91.272	-7.076	7.638	1.00 6.37
ATOM	1292	CD1	_		91.693		6.980	1.00 4.42
MOTA	1293	CD2			90.391	-5.229 -7.780	6.553	1.00 6.77
MOTA	1294	CE1			91.269		5.883	1.00 8.86
ATOM	1295	CE2			89.960	-5.932	5.672	1.00 7.24
MOTA	1296	CZ	TYR B 145		90.415	-7.214	4.530	1.00 14.42
ATOM	1297	OH	TYR B 145		90.089	-7.913	7.666	1.00 2.00
MOTA	1298	N	TYR B 146		92.044	-1.640	7.414	1.00 2.00
MOTA	1299		TYR B 146		91.197	-0.529	5.998	1.00 3.76
MOTA	1300	С	TYR B 146		90.699	-0.516	5.275	1.00 10.37
MOTA	1301		TYR B 146		90.915	-1.482	7.684	1.00 3.14
MOTA	1302	CB	TYR B 146		92.009	0.680 1.022	6.533	1.00 13.13
ATOM	1303		TYR B 146		92.936		6.519	
ATOM	1304		1 TYR B 146		94.289	0.579		
ATOM	1305		2 TYR B 146		92.474	1.813		
MOTA	1306	CE:	1 TYR B 146		95.155	0.931		
MOTA	1307	CE			93.310	2.167		
MOTA	1308	CZ	TYR B 146		94.648	1.740		
MOTA	1309	OH	TYR B 146		95.424	2.222		
MOTA	1310		THR B 147		90.015	0.570		
ATOM	1311				89.490	0.763		
ATOM	1312	2 C	THR B 147		89.552	2.186		
ATOM	1313	3 0	THR B 147		89.318	3.087		
ATOM	1314	4 CB			88.091	0.346		
ATOM	1315	5 OG	1 THR B 14		88.028	-1.071		
ATOM	1310		2 THR B 14	7	87.586	0.701		
ATOM	131	7 N	MET B 149		89.895	2.373		
ATOM	131	B CA	MET B 14	3	90.009	3.683	3 1.981	1.00 9.00

ATOM	1319	С	мет в	148	90.078	3.381	0.471	1.00	16.51
ATOM	1320	Ō	MET B		91.134	3.332	-0.131	1.00	19.42
ATOM	1321	СВ		148	91.275	4.308	2.529	1.00	2.00
MOTA	1322	CG		148	91.454	5.720	2.160	1.00	6.86
ATOM	1323	SD	MET B	148	90.228	6.759	2.846	1.00	9.58
MOTA	1324	CE	MET B	148	90.609	6.667	4.646		10.21
ATOM	1325	N	SER B		88.919	3.176	-0.133	1.00	22.24
ATOM	1326	CA	SER B	149	88.839	2.801	-1.538		21.45
ATOM	1327	С	SER B	149	89.544	3.729	-2.500		20.51
ATOM	1328	0	SER B	149	89.894	3.285	-3.602	1.00	22.63
ATOM	1329	CB	SER B	149	87.367	2.640	-1.977		24.02
ATOM	1330	OG	SER B	149	86.627	3.835	-1.737		31.90
MOTA	1331	N	ASN B	150	89.702	5.006	-2.150		17.04
MOTA	1332	CA	ASN B	150	90.390	5.932	-3.067		25.11
MOTA	1333	С	ASN B	150	90.427	7.377	-2.676		24.08
MOTA:	1334	0	ASN B	150	89.967	7.754	-1.615		28.75
MOTA	1335	CB	ASN E		89.848	5.858	-4.517		27.99
MOTA	1336	CG	ASN E		88.351	6.091	-4.618		33.20
MOTA	1337		ASN E		87.814	7.042	-4.056		33.40
MOTA	1338	ND2	ASN E		87.668	5.214	-5.352		38.50
ATOM	1339	N	ASN E		90.998	8.196	-3.539		20.79
MOTA	1340	CA	ASN E		91.072	9.601	-3.225		22.43
MOTA	1341	С	ASN E		89.748	10.335	-3.372		20.18
ATOM	1342	0	ASN E		89.671	11.573	-3.240		21.76
ATOM	1343	СВ	ASN E		92.101	10.268	-4.099		31.12
MOTA	1344	CG	ASN E		93.444	9.541	-3.984		32.35 41.62
ATOM	1345	OD1			94.148 93.825	9.539	-4.974 -2.781		33.50
MOTA	1346		ASN E			9.231 9.581	-3.696	1.00	14.54
ATOM	1347	N	LEU E		88.712 87.409	10.165	-3.805	1.00	7.65
ATOM	1348 1349	CA C	LEU E		86.931	10.103	-2.357		10.43
ATOM ATOM	1350	0	LEU E		86.007	11.173	-2.068	1.00	
ATOM	1351	СВ	LEU E		86.533	9.235	-4.608	1.00	8.56
ATOM	1352	CG	LEU E		86.665	9.447	-6.117	1.00	8.40
ATOM	1353	CD1			87.090	10.874	-6.484	1.00	2.12
ATOM	1354	CD2			87.627	8.411	-6.571	1.00	9.92
ATOM	1355	N	VAL E		87.611	9.723	-1.436	1.00	2.20
ATOM	1356	CA	VAL E		87.343	9.939	-0.049	1.00	2.00
ATOM	1357	c	VAL I		88.719	9.977	0.547	1.00	5.10
ATOM	1358	0	VAL E		89.541	9.160	0.213	1.00	8.89
ATOM	1359	CB	VAL I	153	86.551	8.844	0.568	1.00	4.85
MOTA	1360	CG1	VAL E	3 153	87.446	7.971	1.486	1.00	8.94
MOTA	1361	CG2	VAL I	153	85.420	9.484	1.367	1.00	6.56
MOTA	1362	И	THR F		88.964	10.901	1.462	1.00	8.60
MOTA	1363	CA	THR I		90.283	11.059	2.047	1.00	8.26
MOTA	1364	С	THR I		90.224	11.372	3.540	1.00	12.06
ATOM	1365	0	THR I		89.462	12.263	3.955	1.00	9.82
ATOM	1366	CB	THR		90.983	12.220	1.339	1.00	10.75
ATOM	1367	OG1			91.112	13.349	2.224		12.64
MOTA	1368	CG2			90.146	12.637	0.150	1.00	3.62
ATOM	1369	N	LEU I		91.080	10.701	4.327	1.00	11.13
ATOM	1370	CA	LEU I		91.154	10.904	5.784	1.00	5.68
ATOM	1371	C	LEU I		92.108	12.054	6.103	1.00	8.41
ATOM	1372	0 .			93.301	11.826	6.278	1.00	16.19
MOTA	1373	CB	LEU I		91.716	9.663	6.456	1.00	2.00
MOTA	1374	CG	LEU I		91.590	9.569	7.964	1.00	2.00 4.45
ATOM	1375	CD1			92.404	8.422	8.430	1.00	6.05
ATOM	1376	CD2			91.986	10.870	8.641 6.237	1.00	6.54
ATOM ATOM	1377 1378	N CA	GLU I			13.276 14.317	6.551	1.00	9.31
ATON	1210	CM	GTO 1	סנג י	32.310	T4.2T1	0.001	1.00	J. J.

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MOTA	1379	С	GLU B 156		92.676	14.747	8.012	1.00 11.28
MOTA	1380	0	GLU B 156		91.722	14.699	8.762	1.00 12.55
	1381	CB	GLU B 156		92.356	15.509	5.676	1.00 12.15
MOTA					91.093	16.194	5.848	1.00 14.87
ATOM	1382	CG					4.523	1.00 23.83
ATOM	1383	CD	GLU B 156		90.711	16.820		
MOTA	1384	OE1	GLU B 156		91.280	16.298	3.525	1.00 19.63
ATOM	1385	OE2	GLU B 156		89.885	17.795	4.466	1.00 24.80
ATOM	1386	N	ASN B 157		93.890	15.122	8.397	1.00 15.16
			ASN B 157		94.260	15.537	9.741	1.00 10.09
MOTA	1387	CA					10.794	1.00 10.08
MOTA	1388	С	ASN B 157		94.085	14.480		
MOTA	1389	0	ASN B 157		94.348	14.708	11.970	1.00 8.29
MOTA	1390	CB	ASN B 157		93.534	16.788	10.105	1.00 16.65
ATOM	1391	CG	ASN B 157		94.290	18.010	9.662	1.00 29.12
	1392		ASN B 157		94.160	18.459	8.502	1.00 31.31
ATOM		ODI	ASN D 157		95.104	18.563	10.580	1.00 30.88
MOTA	1393		ASN B 157				10.355	1.00 30.00
MOTA	1394	N	GLY B 158		93.723	13.282		
ATOM	1395	CA	GLY B 158		93.511	12.218	11.311	1.00 15.31
ATOM	1396	С	GLY B 158		92.356	12.591	12.224	1.00 17.01
MOTA	1397	0	GLY B 158		92.198	11.990	13.292	1.00 17.53
			LYS B 159		91.549	13.574	11.785	1.00 19.52
MOTA	1398	N				14.087	12.524	1.00 17.56
ATOM	1399	CA	LYS B 159		90.371			
ATOM	1400	С	LYS B 159		89.072	13.824	11.764	
ATOM	1401	0	LYS B 159		88.097	13.353	12.353	1.00 17.91
ATOM	1402	СВ	LYS B 159		90.469	15.586	12.788	1.00 20.96
ATOM	1403	CG	LYS B 159	•	91.818	16.180	12.491	1.00 36.27
			LYS B 159		92.746	16.257	13.737	1.00 49.87
ATOM	1404	CD					13.466	1.00 55.82
MOTA	1405	CE	LYS B 159		94.043	17.081		
ATOM	1406	NZ	LYS B 159		94.930	17.245	14.673	1.00 55.29
ATOM	1407	N	GLN B 160		89.057	14.066	10.460	1.00 6.06
ATOM	1408	CA	GLN B 160		87.846	13.810	9.718	1.00 6.36
ATOM	1409	С	GLN B 160		87.978	12.999	8.432	1.00 8.22
			GLN B 160		89.066	12.647	8.046	1.00 13.03
ATOM	1410	0			87.198	15.137	9.393	1.00 7.92
ATOM	1411	CB	GLN B 160					1.00 6.41
MOTA	1412	CG	GLN B 160		87.651	15.797	8.131	
ATOM	1413	CD	GLN B 160		88.404	17.091	8.453	1.00 10.14
MOTA	1414	OE1	GLN B 160		88.500	17.985	7.630	1.00 13.83
MOTA	1415	NE2	GLN B 160		88.898	17.199	9.676	1.00 10.30
ATOM	1416	N	LEU B 161		86.851	12.678	7.803	1.00 7.98
		CA	LEU B 161		86.792	12.012	6.506	1.00 2.95
ATOM	1417				86.140	13.096	5.609	1.00 6.81
ATOM	1418	С	LEU B 161					
ATOM	1419	0	LEU B 161		85.091	13.675	5.949	
MOTA	1420	CB	LEU B 161		85.895	10.800	6.565	1.00 2.00
ATOM	1421	CG	LEU B 161		86.554	9.667	7.322	1.00 3.72
ATOM	1422	CD1	LEU B 161		85.542	8.606	7.746	1.00 4.99
ATOM	1423		LEU B 161		87.546	9.024	6.385	1.00 11.22
			THR B 162		86.758	13.384	4.464	1.00 8.42
ATOM	1424	И			86.233		3.563	1.00 4.41
ATOM	1425	CA	THR B 162			14.396		
ATOM	1426	С	THR B 162		85.850	_13.769	2.260	
MOTA	- 1427	0	THR B 162		86.484	12.832	1.825	1.00 18.94
MOTA	1428	CB	THR B 162		87.245	15.417	3.276	1.00 3.30
ATOM	1429	OG]			87.413	16.244	4.439	1.00 4.51
ATOM	1430	CG2			86.808	16.204	2.070	1.00 3.21
					84.774	14.216	1.650	1.00 9.67
ATOM	1431	N	VAL B 163					1.00 10.99
ATOM	1432	CA	VAL B 163		84.401	13.613	0.385	
ATOM	1433	С	VAL B 163		84.495	14.651	-0.723	1.00 11.90
ATOM	1434	0	VAL B 163		84.278	15.861	-0.497	1.00 5.84
ATOM	1435	CB	VAL B 163		82.914	12.972	0.411	1.00 6.53
ATOM	1436		VAL B 163		82.889	11.666	1.205	1.00 2.88
			2 VAL B 163		81.914	13.942	0.962	1.00 2.00
ATOM	1437						-1.914	1.00 11.64
MOTA	1438	N	LYS B 164		84.838	14.162	-1.514	T.00 77.04

ATOM	1439	CA	LYS B 164	84.940	15.030	-3.073	1.00 1	4.76
ATOM	1440	C	LYS B 164	83.689	14.996	-3.907	1.00 1	0.78
			LYS B 164	83.414	15.919	-4.640	1.00 1	1.04
ATOM	1441	O CP	LYS B 164	86.141	14.638	-3.962	1.00 2	0.80
ATOM	1442	CB	LYS B 164	87.462	14.464	-3.222	1.00 2	3.24
ATOM	1443	CG	LYS B 164	88.606	15.000	-4.012	1.00 2	
MOTA	1444	CD		89.916	14.771	-3.278	1.00 3	
MOTA	1445	CE	LYS B 164		15.576	-2.030	1.00 4	
MOTA	1446	NZ	LYS B 164	89.942	13.939	-3.798	1.00 1	
MOTA	1447	N	ARG B 165	82.913	13.882	-4.621	1.00 1	
MOTA	1448	CA	ARG B 165	81.718		-3.850	1.00 2	
MOTA	1449	С	ARG B 165	80.408	14.068	-2.844	1.00 2	
MOTA	1450	0	ARG B 165	80.143	13.377	-5.363	1.00 2	
ATOM	1451	CB	ARG B 165	81.679	12.554	-6.734	1.00 1	
MOTA	1452	CG	ARG B 165	82.324	12.586		1.00 1	
MOTA	1453	CD	ARG B 165	83.365	11.465	-6.874		
MOTA	1454	NE	ARG B 165	82.936	10.407	-7.777	1.00 1	
MOTA	1455	CZ	ARG B 165	83.480	10.191	-8.966	1.00 2	
MOTA	1456		ARG B 165	84.472	10.969	-9.382	1.00 2	
MOTA	1457	NH2	ARG B 165	83.033	9.198	-9.733	1.00 2	
MOTA	1458	N	GLN B 166	79.564	14.985	-4.305	1.00 1	
MOTA	1459	CA	GLN B 166	78.285	15.151	-3.611	1.00 1	
ATOM	1460	С	GLN B 166	77.550	13.803	-3.631	1.00 1	
MOTA	1461	0	GLN B 166	77.881	12.924	-4.426	1.00 1	
ATOM	1462	CB	GLN B 166	77.401	16.165	-4.325	1.00 1	
ATOM	1463	CG	GLN B 166	76.760	15.698	-5.641	1.00	2.20
ATOM	1464	CD	GLN B 166	76.509	16.902	-6.555	1.00	
ATOM	1465	OE1	GLN B 166	76.857	18.052	-6.220	1.00	8.85
MOTA	1466	NE2		75.915	16.647	-7.710	1.00	
ATOM	1467	N	GLY B 167	76.554	13.635	-2.769	1.00	
MOTA	1468	CA	GLY B 167	75.802	12.398	-2.799	1.00	
MOTA	1469	С	GLY B 167	75.279	11.861	-1.500	1.00	
ATOM	1470	0	GLY B 167	75.422	12.484	-0.469	1.00	
MOTA	1471	N	LEU B 168	74.665	10.692	-1.560	.1.00	8.93
MOTA	1472	CA	LEU B 168	74.122	10.078	-0.373	1.00	
MOTA	1473	С	LEU B 168	75.233	9.189	0.161	1.00	8.02
ATOM	1474	0	LEU B 168	76.012	8.668	-0.621	1.00	
ATOM	1475	CB	LEU B 168	72.894	9.231	-0.757	1.00	
ATOM	1476	CG	LEU B 168	71.465	9.648	-0.387	1.00	
MOTA	1477		LEU B 168	71.518	10.531	0.861	1.00	
MOTA	1478	CD2	LEU B 168	70.809	10.403	-1.554	1.00	
MOTA	1479	N	TYR B 169	75.321	8.995	1.462	1.00	2.00
MOTA	1480	CA	TYR B 169	76.362	8.135	1.969	1.00	2.00
MOTA	1481	С	TYR B 169	75.868	7.499	3.239	1.00	2.97
MOTA	1482	0	TYR B 169	75.149	8.129		1.00	8.98
MOTA	1483	СВ	TYR B 169	77.609	8.941	2.346	1.00	
MOTA	1484	CG	TYR B 169	78.415	9.568	1.212	1.00	
MOTA	1485		TYR B 169	78.014	10.757	0.601	1.00	
MOTA	1486	CD2	2 TYR B 169	79.579	8.955	0.740	1.00	
ATOM	1487		L TYR B 169	78.759	11.308	-0.454		
MOTA	1488	CE2	2 TYR B 169	80.328	9.504	-0.317	1.00	
MOTA	1489	CZ	TYR B 169	79.914	10.671	-0.899	1.00	
ATOM	1490	OH	TYR B 169	80.668	11.227	-1.901	1.00	
ATOM	1491	N	TYR B 170	76.275	6.285	3.566	1.00	5.35
ATOM	1492	CA	TYR B 170	75.828	5.713	4.825	1.00	7.41
MOTA	1493	С	TYR B 170	77.011	5.977	5.728	1.00	9.88
ATOM	1494	0	TYR B 170	78.073	5.441	5.470	1.00	
MOTA	1495	CB	TYR B 170	75.634	4.221	4.726	1.00	6.74
MOTA	1496	CG	TYR B 170	75.325	3.665	6.068	1.00	6.62
MOTA	1497	CD:	1 TYR B 170	74.210	4.066	6.736	1.00	2.00
MOTA	1498	CD	2 TYR B 170	76.177	2.765	6.689	1.00	12.14

ATOM	1499	CE1	TYR F	3 170	73	.945	3.585	8.000	1.00 13	.25
ATOM	1500	CE2	TYR F			.920	2.274	7.962	1.00 13	
ATOM	1501									
		CZ	TYR E			.806	2.685	8.617	1.00 12	
ATOM	1502	ОН	TYR E		74.	.552	2.212	9.893	1.00 13	.87
ATOM	1503	N	ILE E	3 171	76.	.836	6.749	6.797	1.00 7	.51
ATOM	1504	CA	ILE E		77	.955	7.095	7.665		.88
ATOM	1505	С	ILE F					9.030		
						.865	6.453			.41
ATOM	1506	0	ILE E			.784	6.369	9.588	1.00 16	.25
ATOM	1507	CB	ILE E		78.	.019	8.574	7.828	1.00 4	.86
ATOM	1508	CG1	ILE E	171	78.	.298	9.193	6.458	1.00 9	.74
ATOM	1509	CG2	ILE E	171	79.	.052	8.920	8.851		.14
ATOM	1510	CD1	ILE E			.209	10.767	6.395	1.00 11	
ATOM	1511	N	TYR E			.983				
							6.005	9.582		.38
MOTA	1512	CA	TYR F			946	5.341	10.879		. 63
ATOM	1513	С	TYR E			.168	5.537	11.729	1.00 6	.78
·ATOM	1514	0	TYR E	172	81.	.177	5.991	11.244	1.00 20	.44
ATOM	1515	CB	TYR E	172	78.	.780	3.869	10.683		.00
ATOM	1516	CG	TYR E			943	3.281	9.976		.11
ATOM	1517	CD1				.984	3.244	8.594		
										.76
ATOM	1518	CD2	TYR E			.960	2.663	10.687		.58
ATOM	1519	CE1	TYR E			.014	2.575	7.932	1.00 13	.29
MOTA	1520	CE2	TYR E	172	81.	. 992	1.988	10.052	1.00 7	.01
ATOM	1521	CZ	TYR E	172	82.	.022	1.929	8.684	1.00 10	
ATOM	1522	ОН	TYR E	172		019	1.154	8.114		.09
ATOM	1523	N	ALA E			.081	5.207	13.002		.00
ATOM	1524	CA	ALA E				5.207		_	
						.215	5.356	13.873		.74
ATOM	1525	С	ALA E			.917	4.444	15.055		.08
ATOM	1526	0	ALA E		79.	.910	4.604	15.724	1.00 15.	.08
ATOM	1527	CB	ALA E	173	81.	.339	6.808	14.297	1.00 2.	.00
ATOM	1528	N	GLN E	174	81.	.762	3.456	15.300		.50
ATOM	1529	CA	GLN E	174		.525	2.545	16.410		.58
ATOM	1530	С	GLN E			428	3.130	17.459		.77
ATOM	1531	0	GLN E			.540				
ATOM							3.524	17.156	1.00 13.	
	1532	CB	GLN E			.964	1.116	16.038	1.00 13.	
ATOM	1533	CG	GLN E		81.	.060	-0.023	16.536	1.00 26.	
ATOM	1534	CD	GLN E	174	81.	614	-0.734	17.829	1.00 38.	. 91
ATOM	1535	OE1	GLN E	174	81.	289	-1.911	18.112	1.00 40.	.49
MOTA	1536	NE2	GLN E	174		452	-0.020	18.599	1.00 38.	
ATOM	1537	N	VAL E	175		946	3.284	18.675		.37
ATOM	1538	CA	VAL E			819	3.798	19.705		
ATOM	1539	C	VAL E						1.00 10.	
ATOM						.584	3.152	21.039	1.00 15.	
	1540	0	VAL E			484	3.213	21.577	1.00 24.	
MOTA	1541	CB	VAL E			690	5.295	19.925		. 47
ATOM	1542		VAL E		83.	275	5.628	21.317	1.00 2.	.00
MOTA	1543	CG2	VAL E	175	83.	426	6.055	18.800		.08
ATOM	1544	N	THR E	176	83.	626	2.532	21.574	1.00 14.	95
ATOM	1545	CA	THR E			533	1.903	22.875	1.00 14.	
ATOM	1546	С	THR E			471	2.742	23.747	1.00 17.	
ATOM	1547	ō								
			THR E			396	3.376	23.236	1.00 16.	
ATOM	1548	CB	THR E			917	0.390	22.811	1.00 6.	. 05
ATOM	1549		THR E		84.	815	0.037	23.870	1.00 2.	.00
ATOM	1550	CG2	THR E	176	84.	511	0.073	21.498	1.00 6.	. 55
ATOM	1551	N	PHE E	177		167	2.837	25.037	1.00 15.	
ATOM	1552	CA	PHE B			998	3.610	25.934	1.00 13.	
ATOM	1553	C	PHE E			030	2.896	27.261	1.00 13.	
ATOM	1554	0	PHE B							
						307	1.935	27.457	1.00 19.	
ATOM	1555	CB	PHE B			476	5.041	26.069	1.00 13.	
ATOM	1556	CG	PHE B			101	5.139	26.617	1.00 16.	
MOTA	1557		PHE B		81.	995	4.840	25.814	1.00 16.	
MOTA	1558	CD2	PHE B	177	82.	899	5.563	27.937	1.00 14.	

ATOM	1559	CE1	PHE B	177		80.685	4.968	26.316	1.00 14.82
MOTA	1560			177		81.615	5.695	28.446	1.00 13.50
MOTA	1561	CZ	PHE B	177		80.494	5.394	27.628	1.00 11.28
MOTA	1562	N		178		85.899	3.320	28.160	1.00 10.23
MOTA	1563	CA		178		86.026	2.647	29.434	1.00 10.38
ATOM	1564	С		178		86.078	3.728	30.452	1.00 17.83
MOTA	1565	0	CYS B	178		86.846	4.648	30.295	1.00 22.85 1.00 3.19
ATOM	1566	CB	CYS B	178		87.325	1.902	29.448 30.662	1.00 3.19 1.00 2.59
ATOM	1567	SG		178 179		87.353 85.264	0.602 3.656	31.489	1.00 24.12
ATOM ATOM	1568 1569	N CA	SER B	179		85.295	4.732	32.446	1.00 28.29
ATOM	1570	C		179		84.768	4.216	33.736	1.00 34.31
ATOM	1571	Ö		179		84.639	3.008	33.907	1.00 31.96
ATOM	1572	СВ		179		84.407	5.861	31.942	1.00 29.95
ATOM	1573	OG		179		83.075	5.398	31.738	1.00 33.13
ATOM	1574	N	ASN B	180		84.423	5.150	34.622	1.00 42.85
ATOM	1575	CA	ASN B	180		83.883	4.822	35.937	1.00 47.30
MOTA	1576	С	ASN B	180		82.668	5.674	36.308	1.00 50.62
MOTA	1577	0_	ASN B	180		82.391	6.697	35.686	1.00 53.53
ATOM	1578	CB	ASN B	180		84.958	5.019	36.981	1.00 46.27 1.00 45.32
MOTA	1579	CG	ASN B	180		84.701 84.138	4.238 4.744	38.205 39.170	1.00 45.32
ATOM	1580 1581		ASN B	180 180		85.127	2.987	38.194	1.00 44.36
MOTA MOTA	1582	N DZ	ARG B	181		81.917	5.232	37.305	1.00 53.51
ATOM	1583	CA	ARG B	181		80.776	6.007	37.709	1.00 58.42
ATOM	1584	С	ARG B	181		81.272	7.307	38.293	1.00 60.66
ATOM	1585	0	ARG B	181		81.188	8.325	37.638	1.00 60.55
MOTA	1586	CB	ARG B	181		79.904	5.243	38.717	1.00 63.75
MOTA	1587	CG	ARG B	181		80.522	4.976	40.092	1.00 69.41
ATOM	1588	CD	ARG B			79.467	5.040	41.209	1.00 73.09
MOTA	1589	NE	ARG B	181	. •	79.916	5.821	42.364 42.572	1.00 77.20 1.00 79.29
MOTA	1590	CZ	ARG B	181 181		79.613 78.853	7.101 7.771	42.372	1.00 79.23
ATOM ATOM	1591 1592	NH1 NH2		181		80.074	7.721	43.650	1.00 78.85
ATOM	1593	N	GLU B	182		81.826	7.280	39.498	1.00 63.65
ATOM	1594	CA	GLU B	182		82.288	8.505	40.136	1.00 69.45
ATOM	1595	С	GLU B	182		83.531	9.147	39.521	1.00 72.38
MOTA	1596	0	GLU B	182		83.642	10.380	39.475	1.00 73.90
MOTA	1597	CB	GLU B	182		82.518	8.260	41.634	1.00 71.63
MOTA	1598	CG	GLU B	182		82.889	9.522	42.459	1.00 76.19
ATOM	1599	CD	GLU B	182		82.080	10.774 11.804	42.086 41.731	1.00 77.64 1.00 78.16
ATOM ATOM	1600 1601	OE1 OE2		182 182		82.702 80.830	10.732	42.150	1.00 70.10
ATOM	1601	N	ALA B			84.468	8.320	39.066	1.00 74.41
ATOM	1603	CA	ALA B			85.697	8.824	38.467	1.00 74.67
ATOM	1604	C	ALA B			85.449	10.181	37.821	1.00 74.41
ATOM	1605	0	ALA B			85.600	11.222	38.463	1.00 74.20
ATOM	1606	CB	ALA B			86.210	7.844	37.435	1.00 77.52
ATOM	1607	N	SER B		-	85.075	10.171	36.548	1.00 73.54
MOTA	1608	CA	SER B			84.795	11.415	35.864	1.00 76.06
ATOM	1609	С	SER B			83.362	11.706	36.269	1.00 75.05
MOTA	1610	0	SER B			82.935 84.915	12.859 11.245	36.348 34.332	1.00 73.99 1.00 79.33
MOTA	1611	CB	SER B			86.061	11.243	33.798	1.00 77.98
ATOM ATOM	1612 1613	OG N	SER B			82.638	10.629	36.549	1.00 74.57
ATOM	1614	CA	SER B			81.236	10.710	36.947	1.00 73.67
ATOM	1615	C	SER B			80.493	11.749	36.138	1.00 72.12
ATOM	1616	0	SER B			79.918	11.449	35.087	1.00 71.48
ATOM	1617	CB	SER B	185		81.107	11.044	38.431	1.00 74.09
MOTA	1618	OG	SER B	185		80.133	10.209	39.035	1.00 75.62

							0.6.637	1 00 60 74
ATOM	1619	N	GLN B 186		80.514	12.978	36.637	1.00 69.74
ATOM	1620	CA	GLN B 186		79.853	14.077	35.963	1.00 68.40
ATOM	1621	С	GLN B 186		78.555	13.584	35.312	1.00 65.59
	1622	ō	GLN B 186		77.761	12.849	35.933	1.00 65.46
ATOM					80.796	14.681	34.899	1.00 68.75
MOTA	1623	CB				13.661	33.951	1.00 70.21
MOTA	1624	CG	GLN B 186		81.436		32.516	1.00 74.24
ATOM	1625	CD	GLN B 186		80.906	13.757		
ATOM	1626	OE1	GLN B 186		80.471	14.826	32.068	1.00 73.48
ATOM	1627	NE2	GLN B 186		80.945	12.635	31.789	1.00 74.88
ATOM	1628	N	ALA B 187		78.370	13.984	34.055	1.00 58.69
ATOM	1629	CA	ALA B 187		77.206	13.629	33.267	1.00 48.44
ATOM	1630	С	ALA B 187		77.595	12.457	32.379	1.00 42.10
ATOM	1631	0	ALA B 187		78.689	11.902	32.515	1.00 39.76
ATOM	1632	СВ	ALA B 187		76.772	14.825	32.429	1.00 50.08
ATOM	1633	N	PRO B 188		76.706	12.060	31.458	1.00 36.06
	1634	CA	PRO B 188		77.067	10.931	30.602	1.00 34.03
ATOM					78.267	11.192	29.666	1.00 31.25
ATOM	1635	С				12.261	29.691	1.00 28.39
ATOM	1636	0	PRO B 188		78.908		29.826	1.00 26.33
ATOM	1637	CB	PRO B 188		75.772	10.652		
MOTA	1638	CG	PRO B 188		75.053	11.994	29.796	1.00 29.95
ATOM	1639	CD	PRO B 188	1	75.370	12.594	31.138	1.00 32.72
ATOM	1640	N	PHE B 189)	78.527	10.179	28.843	1.00 25.22
ATOM	1641	CA	PHE B 189)	79.580	10.169	27.852	1.00 14.14
ATOM	1642	С	PHE B 189)	78.853	10.214	26.542	1.00 8.23
ATOM	1643	0	PHE B 189)	78.403	9.200	26.072	1.00 9.99
ATOM	1644	СВ	PHE B 189		80.337	8.844	27.922	1.00 16.56
ATOM	1645	CG	PHE B 189		81.306	8.655	26.797	1.00 20.89
ATOM	1646		PHE B 18		80.870	8.267	25.534	1.00 21.92
ATOM	1647	CD2	PHE B 18:		82.643	8.950	26.972	1.00 17.43
	1648	CEI	PHE B 18		81.749	8.191	24.463	1.00 19.12
MOTA					83.514	8.873	25.904	1.00 16.22
ATOM	1649	CE2	PHE B 18		83.066	8.496	24.647	1.00 14.81
ATOM	1650	CZ	PHE B 18			11.363	25.936	1.00 9.60
ATOM	1651	N	ILE B 19		78.689			1.00 3.00
MOTA	1652	CA	ILE B 19		77.986	11.361	24.652	1.00 11.04
ATOM	1653	С	ILE B 19		79.004	11.470	23.492	
ATOM	1654	0	ILE B 19		80.010	12.173	23.591	1.00 10.11
ATOM	1655	CB	ILE B 19		76.863	12.519	24.585	1.00 10.12
ATOM	1656	CG1	ILE B 19)	77.299	13.664	23.682	1.00 11.84
ATOM	1657	CG2	ILE B 19)	76.590	13.124	25.968	1.00 2.00
ATOM	1658	CD1	ILE B 19	0	77.153	13.359	22.248	1.00 21.58
MOTA	1659	N	ALA B 19	1	78.731	10.773	22.398	1.00 7.54
ATOM	1660	CA	ALA B 19	1	79.605	10.780	21.239	1.00 3.25
ATOM	1661	С	ALA B 19	1	78.773	11.336	20.105	1.00 2.20
ATOM	1662	0	ALA B 19		77.581	11.108	20.034	1.00 2.00
ATOM	1663	СВ	ALA B 19		80.068	9.372	20.931	1.00 2.00
ATOM	1664	N	SER B 19		79.394	12.077	19.211	1.00 6.72
ATOM	1665	CA	SER B 19		78.639	12.666	18.113	1.00 10.62
ATOM	1666	C	SER B 19		79.339	12.606	16.756	1.00 8.71
	1667	Ö			80.535	12.827	16.630	1.00 8.07
MOTA						14.134	18.432	1.00 11.85
MOTA	1668	CB	SER B 19		78.272 78.437	14.422	19.817	1.00 14.98
MOTA	1669	0G	SER B 19					1.00 14.33
MOTA	1670	N	LEU B 19		78.563	12.291	15.741	
MOTA	1671	CA	LEU B 19		79.072	12.239	14.405	1.00 4.07
MOTA	1672	С	LEU B 19		78.811	13.663	13.865	1.00 4.15
MOTA	1673	0	LEU B 19		77.660	14.045	13.620	1.00 3.93
MOTA	1674	CB	LEU B 19	3	78.288	11.178	13.618	1.00 2.00
MOTA	1675	CG	LEU B 19	3	78.832	10.785	12.234	1.00 8.07
ATOM	1676	CD1	LEU B 19	3	77.731	10.623	11.245	1.00 6.97
ATOM	1677	CD2	LEU B 19		79.742	11.871	11.701	1.00 8.54
ATOM	1678	N	CYS B 19		79.855	14.453	13.651	1.00 2.00

ATOM	1679	CA	CYS	R	194	-	79.620	15.806	13.137	1.00	4.09
ATOM	1680				194		79.954	15.972	11.687	1.00	4.58
		С								1.00	10.22
ATOM	1681	0			194		30.772	15.236	11.156	1.00	3.16
MOTA	1682	СВ			194		30.391	16.832	13.916		
MOTA	1683	SG			194		30.033	16.677	15.629		15.78
MOTA	1684	И			195		79.317	16.929	11.028	1.00	2.00
MOTA	1685	CA	LEU		195		79.577	17.115	9.623	1.00	2.00
ATOM	1686	С	LEU		195		79.903	18.537	9.415	1.00	4.20
MOTA	1687	0			195		79.337	19.391	10.045	1.00	2.89
ATOM	1688	CB	LEU		195		78.376	16.721	8.789	1.00	2.00
ATOM	1689	CG	LEU	В	195	-	78.067	17.709	7.693	1.00	2.00
ATOM	1690	CD1	LEU	В	195	-	78.900	17.318	6.584	1.00	6.60
ATOM	1691	CD2	LEU	В	195	-	76.636	17.659	7.242	1.00	4.83
MOTA	1692	N	LYS	В	196	8	30.852	18.779	8.524	1.00	12.10
MOTA	1693	CA	LYS	В	196	8	31.295	20.121	8.230	1.00	13.90
MOTA	1694	С	LYS	В	196		31.305	20.232	6.746	1.00	13.90
ATOM	1695	0	LYS		196		32.148	19.630	6.105	1.00	
ATOM	1696	СВ	LYS		196		32.690	20.359	8.779	1.00	8.40
ATOM	1697	CG			196		33.129	21.766	8.573	1.00	11.90
ATOM	1698	CD	LYS		196		32.235	22.767	9.243		20.50
ATOM	1699	CE	LYS		196		32.434	24.107	8.629		20.80
ATOM	1700	NZ	LYS		196		B2.764	23.911	7.188		34.47
ATOM	1701	N	SER		197		80.307	20.917	6.195	1.00	
	1701		SER		197		30.307	21.123	4.754	1.00	
MOTA		CA C						22.480	4.449	1.00	
MOTA	1703		SER		197		80.806				
MOTA	1704	0	SER		197		30.706	23.396	5.246	1.00	18.38
ATOM	1705	CB	SER		197		78.817	21.130	4.252	1.00	
ATOM	1706	OG	SER		197		78.764	21.969	3.109	-	24.71
MOTA	1707	N	PRO		198		81.400	22.630	3.275		14.60
ATOM	1708	CA	PRO		198		81.997	23.881	2.866	1.00	
ATOM	1709	С	PRO		198		81.037	25.074	2.891		18.03
MOTA	1710	0	PRO		198		79.953	25.034	2.305	1.00	17.31
MOTA	1711	CB	PRO		198		82.481	23.574	1.464	1.00	16.26
ATOM	1712	CG	PRO		198		81.619	22.482	1.015	1.00	
MOTA	1713	CD	PRO		198		81.516	21.631	2.209	1.00	
ATOM	1714	N	GLY	В	199		81.485	26.146	3.539		20.54
MOTA	1715	CA	GLY		199		80.704	27.359	3.627		20.73
MOTA	1716	С	GLY		199		79.486	27.234	4.481		17.45
ATOM	1717	0	GLY	В	199		78.494	27.891	4.249	1.00	18.30
MOTA	1718	N	ARG	В	200		79.565	26.362	5.463		16.70
ATOM	1719	CA	ARG	В	200		78.452	26.154	6.359	1.00	15.16
MOTA	1720	С	ARG	В	200	•	79.020	25.947	7.722	1.00	18.23
ATOM	1721	0	ARG	В	200		80.131	25.456	7.865	1.00	20.93
MOTA	1722	CB	ARG	В	200		77.713	24.905	5.962	1.00	11.57
ATOM	1723	CG	ARG	В	200		77.239	24.951	4.574	1.00	12.90
MOTA	1724	CD	ARG				76.123	25.926	4.449	1.00	15.77
ATOM	1725	NE	ARG				75.741	26.004	3.054	1.00	33.47
ATOM	1726	CZ	ARG				74.509	26.209	2.629		37.06
MOTA	1727		ARG				73.526	26.351	3.510		39.77
ATOM	1728		ARG				74.268	26.267	1.321		41.59
ATOM	1729	N			201		78.285	26.308	8.750		18.30
ATOM	1730	CA			201		78.846	26.057	10.047		18.40
ATOM	1731	C			201		78.776	24.559	10.286		17.94
ATOM	1732	Ö			201		78.122	23.823	9.549		17.49
ATOM	1733	СВ			201		78.052	26.786	11.104		21.73
ATOM	1734	CG			201		78.189	28.257	11.034		26.09
ATOM	1735	CD1					78.983	28.920	11.946		30.67
ATOM	1736		PHE				77.552	28.984	10.042		30.87
	1737						77.332 79.152	30.293	11.872		35.06
ATOM			PHE								36.09
ATOM	1738	CEZ	PHE	מ	Z 0 T		77.719	30.376	9.960	1.00	30.09

MOTA	1739	CZ	PHE B 201	78.520	31.025	10.881	1.00	34.93
			GLU B 202	79.471	24.099	11.306	1.00	18.36
ATOM	1740				22.700	11.649	1.00	
MOTA	1741	CA	GLU B 202	79.420				
MOTA	1742	С	GLU B 202	77.978	22.328	11.867	1.00	
MOTA	1743	0	GLU B 202	77.074	23.114	11.600	1.00	
ATOM	1744	CB	GLU B 202	80.190	22.460	12.916	1.00	20.20
ATOM	1745	CG	GLU B 202	81.641	22.777	12.745	1.00	28.31
			GLU B 202	82.401	22.608	14.029	1.00	
MOTA	1746	CD					1.00	
MOTA	1747		GLU B 202	81.769	22.584	15.120		
ATOM	1748	OE2	GLU B 202	83.644	22.498	13.947	1.00	
MOTA	1749	И	ARG B 203	77.761	21.136	12.382	1.00	
ATOM	1750	CA	ARG B 203	76.419	20.653	12.584	1.00	11.57
ATOM	1751	C	ARG B 203	76.514	19.196	13.060	1.00	12.27
	1752		ARG B 203	77.459	18.472	12.738		14.10
ATOM		0		75.639	20.789	11.262	1.00	6.52
MOTA	1753	CB	ARG B 203					
MOTA	1754	CG	ARG B 203	74.507	19.805	11.065		23.84
MOTA	1755	CD	ARG B 203	73.179	20.461	10.566		33.66
ATOM	1756	NE	ARG B 203	72.034	19.540	10.715	1.00	45.05
ATOM	1757	CZ	ARG B 203	71.339	19.325	11.847	1.00	48.31
MOTA	1758		ARG B 203	71.635	19.987	12.967	1.00	47.90
			ARG B 203	70.346	18.430	11.865		47.68
MOTA	1759			75.550	18.781	13.867		11.15
MOTA	1760	N	ILE B 204				_	3.57
ATOM	1761	CA	ILE B 204	75.544	17.439	14.379	1.00	
MOTA	1762	С	ILE B 204	74.543	16.591	13.616	1.00	6.13
ATOM	1763	0	ILE B 204	73.398	17.002	13.389	1.00	3.17
ATOM	1764	СВ	ILE B 204	75.146	17.431	15.810	1.00	2.00
ATOM	1765	CG1	ILE B 204	76.130	18.280	16.628	1.00	2.00
ATOM	1766	CG2	ILE B 204	74.968	15.987	16.240	1.00	2.00
				76.253	17.826	18.106	1.00	2.00
MOTA	1767		ILE B 204				1.00	6.81
ATOM	1768	И	LEU B 205	75.001	15.417	13.200		
ATOM	1769	CA	LEU B 205	74.159	14.479	12.483	1.00	5.08
ATOM	1770	С	LEU B 205	73.630	13.383	13.426	1.00	5.34
ATOM	1771	0	LEU B 205	72.446	13.216	13.498	1.00	8.95
ATOM	1772	CB	LEU B 205	74.920	13.870	11.317	1.00	4.18
ATOM	1773	CG	LEU B 205	75.352	14.792	10.184	1.00	2.00
ATOM	1774	CD1		75.791	13.925	9.035	1.00	2.00
				74.240	15.634	9.677	1.00	2.00
MOTA	1775	CD2	LEU B 205			14.141	1.00	2.00
MOTA	1776	N	LEU B 206	74.476	12.644			
ATOM	1777	CA	LEU B 206	73.997	11.641	15.073	1.00	2.00
ATOM	1778	С	LEU B 206	74.665	11.830	16.422	1.00	2.12
ATOM	1779	0	LEU B 206	75.572	12.633	16.559	1.00	4.64
MOTA	1780	CB	LEU B 206	74.317	10.242	14.611	1.00	2.00
ATOM	1781	CG	LEU B 206	73.795	9.590	13.351	1.00	2.79
ATOM	1782		LEU B 206	73.033	10.522	12.448	1.00	2.00
	1783		LEU B 206	75.050	9.047	12.673		16.30
ATOM				74.203	11.103	17.433	1.00	4.00
MOTA	1784	N	ARG B 207					6.44
ATOM	1785	CA	ARG B 207	74.781	11.201	18.769	1.00	
ATOM	1786	С	ARG B 207	74.279	10.048	19.599	1.00	7.80
ATOM	1787	0	ARG B 207	73.108	9.700	19.506	1.00	_
ATOM	1788	CB	ARG B 207	74.332	12.473	19.456	1.00	
ATOM	1789	CG	ARG B 207	75.265	13.602	19.339	1.00	12.72
ATOM	1790	CD	ARG B 207	74.644	14.756	20.036	1.00	15.92
		NE	ARG B 207	75.457	15.275	21.120		19.40
ATOM	1791				16.118			23.80
ATOM	1792	CZ	ARG B 207	74.992		22.023		34.58
ATOM	1793		ARG B 207	73.724	16.523	21.948		
MOTA	1794	NH2	ARG B 207	75.787	16.579	22.977		25.74
ATOM	1795	N	ALA B 208	75.160	9.452	20.393	1.00	
ATOM	1796	CA	ALA B 208	74.813	8.335	21.253	1.00	
ATOM	1797	С	ALA B 208	75.304	8.746	22.597	1.00	7.22
ATOM	1798	ō	ALA B 208	76.079	9.698	22.697	1.00	6.83
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ATOM	1799	СВ	ALA B	208	75.496	7.104	20.809	1.00 2.00
ATOM	1800	N	ALA B		74.808	8.100	23.640	1.00 14.21
ATOM	1801	CA	ALA B		75.240	8.489	24.978	1.00 23.50
ATOM	1802	C C	ALA B		74.836	7.512	26.065	1.00 27.52
ATOM	1803	Ö	ALA B		73.645	7.178	26.228	1.00 28.86
		СВ	ALA B		74.698	9.929	25.341	1.00 15.95
MOTA	1804			210	75.846	7.086	26.825	1.00 27.42
MOTA	1805	N				6.172	27.926	1.00 25.46
MOTA	1806	CA	ASN B		75.647			1.00 23.92
ATOM	1807	С	ASN B		76.001	6.797	29.230	
MOTA	1808	0		210	76.493	7.914	29.283	1.00 17.37
MOTA	1809	CB	ASN B		76.455	4.911	27.722	1.00 26.40
ATOM	1810	CG		210	75.902	4.077	26.584	1.00 34.36
MOTA	1811	OD1	ASN B	210	75.603	4.617	25.487	1.00 33.21
ATOM	1812	ND2	ASN B	210	75.741	2.762	26.826	1.00 30.48
ATOM	1813	N	THR B		75.703	6.071	30.294	1.00 27.40
ATOM	1814	CA	THR B		75.996	6.546	31.627	1.00 31.18
ATOM	1815	C	THR B		77.051	5.696	32.297	1.00 35.66
ATOM	1816	0.	THR B		76.797	4.528	32.630	1.00 36.24
ATOM	1817	СВ	THR B		74.770	6.519	32.457	1.00 26.47
					73.651	6.489	31.582	1.00 21.45
MOTA	1818	OG1			74.696	7.768	33.319	1.00 32.05
MOTA	1819	CG2						
ATOM	1820	N	HIS B		78.219	6.312	32.514	
MOTA	1821	CA	HIS B		79.382	5.661	33.127	1.00 42.15
ATOM	1822	С	HIS B		79.037	4.532	34.073	1.00 42.02
MOTA	1823	0	HIS B		78.226	4.684	34.990	1.00 41.60
MOTA	1824	CB	HIS B		80.270	6.693	33.853	1.00 41.38
MOTA	1825	CG	HIS B	212	80.804	7.764	32.942	1.00 42.63
MOTA	1826	ND1	HIS B	212	80.787	9.105	33.274	1.00 44.28
ATOM	1827	CD2	HIS B	212	81.303	7.698	31.690	1.00 39.41
ATOM	1828		HIS B		81.256	9.814	32.265	1.00 37.85
ATOM	1829	NE2			81.577	8.984	31.290	1.00 39.23
ATOM	1830	N	SER B		79.661	3.388	33.827	1.00 41.29
ATOM	1831	CA	SER B		79.445	2.217	34.643	1.00 42.04
ATOM	1832	C	SER B		80.272	2.395	35.900	1.00 42.95
ATOM	1833	Ö	SER B		80.956	3.398	36.046	1.00 44.64
ATOM	1834	СВ	SER B		79.901	0.984	33.886	1.00 42.15
ATOM	1835	OG	SER B		81.123	0.519	34.411	1.00 42.34
		N	SER B		80.200	1.442	36.818	1.00 44.84
MOTA	1836		SER B		80.977	1.535	38.050	1.00 48.54
ATOM	1837	CA			82.262	0.757	37.882	1.00 47.97
MOTA	1838	С	SER B			1.171	38.347	1.00 52.13
ATOM	1839	0	SER E		83.321		39.228	1.00 52.13
MOTA	1840	CB	SER B		80.212	0.938	39.257	1.00 53.37
MOTA	1841	OG	SER B		80.355	-0.480		1.00 42.83
MOTA	1842	И	ALA E		82.143	-0.383	37.221	1.00 42.83
ATOM	1843	CA	ALA E		83.263	-1.263	36.983	
MOTA	1844	С	ALA E		84.628	-0.618	37.178	1.00 40.16
MOTA	1845	0	ALA E		85.037	0.215	36.383	1.00 42.00
MOTA	1846	CB	ALA E		83.160	-1.843	35.576	1.00 44.75
MOTA	1847	N	LYS. E	216.	85.326	-0.980	38.248	1.00 38.82
MOTA	1848	CA	LYS E	3 216	86.657	-0.443	38.467	1.00 41.15
ATOM	1849	С	LYS E	3 216	87.658	-1.331	37.719	1.00 41.70
ATOM	1850	0	LYS E		87.453	-2.539	37.570	1.00 42.69
ATOM	1851	СВ	LYS E		86.981	-0.393	39.954	1.00 40.21
ATOM	1852	CG	LYS E		86.314	0.773	40.671	1.00 50.50
ATOM	1853	CD	LYS E		87.047	2.115	40.460	1.00 56.23
	1854		· LYS E		86.528	3.222	41.435	1.00 60.94
ATOM					86.782	4.642	40.993	1.00 57.76
ATOM	1855	NZ	LYS E		88.752	-0.739	37.222	1.00 40.23
MOTA	1856	N	PRO E				37.322	1.00 40.23
ATOM	1857	CA	PRO E		89.098	0.687		1.00 35.20
ATOM	1858	С	PRO F	3 217	88.120	1.445	36.431	1.09 55.57

ATOM	1859	0	PRO	В	217	87.750	2.599	36.694	1.00 36.60	
ATOM	1860	СВ	PRO			90.514	0.740	36.783	1.00 41.24	
			PRO			90.529	-0.407	35.799	1.00 42.73	
ATOM	1861	CG	PRO			89.740	-1.490	36.436	1.00 37.64	
MOTA	1862	CD					0.782	35.346	1.00 28.56	
ATOM	1863	N	CYS			87.739				
ATOM	1864	CA	CYS			86.758	1.332	34.429	1.00 25.16	
ATOM	1865	С	CYS			86.025	0.164	33.779	1.00 19.75	
ATOM	1866	0	CYS	В	218	86.546	-0.950	33.726	1.00 18.35	
MOTA	1867	CB	CYS	В	218	87.404	2.220	33.354	1.00 23.23	
ATOM	1868	SG	CYS	В	218	88.470	1.291	32.234	1.00 16.39	
ATOM	1869	N	GLY			84.800	0.424	33.330	1.00 13.86	
ATOM	1870	CA	GLY			83.999	-0.597	32.684	1.00 9.45	
	1871	C	GLY			83.759	-0.072	31.290	1.00 10.00	
ATOM			GLY			83.365	1.077	31.095	1.00 13.10	
MOTA	1872	0						30.305	1.00 10.85	
ATOM	1873	N	GLN			84.050	-0.896		_	
ATOM	1874	CA	GLN			83.878	-0.490	28.931	1.00 10.42	
ATOM	1875	С	GLN			82.410	-0.501	28.613	1.00 11.04	
ATOM	1876	0	GLN	В	220	81.637	-1.098	29.333	1.00 17.45	
MOTA	1877	CB	GLN	В	220	84.588	-1.462	28.013	1.00 12.16	
ATOM	1878	CG	GLN	В	220	86.078	-1.288	27.881	1.00 9.82	
ATOM	1879	CD	GLN	В	220	86.623	-2.434	27.076	1.00 17.62	
ATOM	1880	OE1			220	86.663	-3.552	27.580	1.00 23.68	ţ
ATOM	1881	NE2	GLN			87.025	-2.190	25.810	1.00 18.63	
ATOM	1882	N	GLN			82.049	0.135	27.512	1.00 9.49	
	1883	CA	GLN			80.683	0.230	27.061	1.00 7.34	
ATOM						80.818	0.654	25.604	1.00 12.05	
MOTA	1884	С			221		1.549	25.293	1.00 12.03	
MOTA	1885	0	GLN		221	81.628				
MOTA	1886	СВ	GLN		221	80.030	1.346	27.816	1.00 10.15	
ATOM	1887	CG			221	79.383	0.973	29.098	1.00 23.28	
ATOM	1888	CD			221	78.195	1.884	29.376	1.00 37.18	
MOTA	1889	OE1	GLN	В	221	77.012	1.477	29.244	1.00 48.79	
ATOM	1890	NE2	GLN	В	221	78.494	3.138	29.748	1.00 37.40)
ATOM	1891	N	SER	В	222	80.013	0.078	24.712	1.00 14.37	
ATOM	1892	CA	SER	В	222	80.133	0.439	23.297	1.00 15.44	1
ATOM	1893	С	SER	В	222	79.044	1.353	22.794	1.00 15.97	1
ATOM	1894	0	SER	В	222	78.020	1.487	23.422	1.00 22.88	3
ATOM	1895	СВ			222	80.196	-0.802	22.428	1.00 20.19	3
ATOM	1896	OG			222	81.527	-1.297	22.395	1.00 24.58	3
ATOM	1897	N			223	79.270	1.991	21.658	1.00 13.93	
ATOM	1898	CA			223	78.310	2.939	21.099	1.00 8.63	
		C			223	78.320	2.781	19.593	1.00 10.31	
MOTA	1899				223	79.353	2.483	19.046	1.00 20.06	
ATOM	1900	0						21.438	1.00 5.65	
MOTA	1901	CB			223	78.759	4.339	22.564		
ATOM	1902		ILE			77.891	4.877			
ATOM	1903		ILE			78.777	5.197	20.189	1.00 2.00	
MOTA	1904	CD1	ILE			78.343	6.235	23.129	1.00 24.95	
ATOM	1905	N			224	77.211	2.995	18.911	1.00 9.08	
ATOM	1906	CA			224	77.199	_2.830	17.469	1.00 8.33	
MOTA	1907	С	HIS	В	224	76.219	3.748	16.756	1.00 13.5	7
ATOM	1908	0	HIS	В	224	75.051	3.783	17.120	1.00 20.02	2
ATOM	1909	CB			224	76.816	1.409	17.167	1.00 9.60	В
ATOM	1910	CG			224	76.980	1.033	15.739	1.00 15.80	0
MOTA	1911		HIS			77.931	0.128	15.311	1.00 13.5	
ATOM	1912		HIS			76.311	1.435	14.629	1.00 14.3	
			HIS			77.834	-0.021	14.008	1.00 16.3	
ATOM	1913							13.567	1.00 15.5	
ATOM	1914		HIS			76.861	0.765		1.00 13.4	
ATOM	1915	N			225	76.659	4.477	15.730	1.00 13.4	
MOTA	1916	CA			225	75.723	5.341	15.028		
MOTA	1917	С			225	75.874	5.373	13.544	1.00 7.41	
MOTA	1918	0	LEU	В	225	76.904	5.764	13.082	1.00 17.6	1

ATOM	1919	CB	LEU B	225	75.845	6.761	15.514	1.00	8.21
MOM	1920	CG	LEU B		76.977	7.052	16.453	1.00	8.38
MOTA									
ATOM	1921	CD1	LEU B	225	77.789	8.089	15.774	1.00	13.65
MOTA	1922	CD2	LEU B	225	76.476	7.593	17.756	1.00	11.62
							12.815		2.45
ATOM	1923	N	GLY B		74.821	5.028		1.00	
ATOM	1924	CA	GLY B	226	74.843	5.026	11.371	1.00	3.03
ATOM	1925	С	GLY B		73.871	6.076	10.852	1.00	8.45
ATOM	1926	0	GLY B	226	73.696	7.125	11.486	1.00	
ATOM	1927	N	GLY B	227	73.286	5.826	9.678	1.00	6.13
ATOM	1928	CA	GLY B		72.326	6.732	9.088	1.00	8.65
ATOM	1929	С	GLY B	227	72.769	7.287	7.747	1.00	9.98
ATOM	1930	0	GLY B	227	73.906	7.703	7.597	1.00	13.65
	1931	N	VAL B		71.849	7.347	6.792	1.00	9.57
ATOM									
MOTA	1932	CA	VAL B	228	72.145	7.823	5.460	1.00	7.33
ATOM	1933	С	VAL B	228	71.969	9.310	5.366	1.00	14.51
						9.850		1.00	
ATOM	1934	0	VAL B		70.983		5.850		
ATOM	1935	CB	VAL B	228	71.209	7.273	4.481	1.00	2.00
ATOM	1936	CG1	VAL B	228	71.254	8.120	3.247	1.00	2.00
ATOM	1937		VAL B		71.541	5.839	4.230	1.00	7.50
ATOM	1938	N	PHE B	229	72.917	9.959	4.707	1.00	13.99
ATOM	1939	CA	PHE B		72.886	11.381	4.532	1.00	6.51
ATOM	1940	С	PHE B		73.318	11.713	3.168	1.00	6.62
ATOM	1941	0	PHE B	229	73.908	10.948	2.460	1.00	8.15
ATOM	1942	CB	PHE B		73.798	12.007	5.533	1.00	2.02
ATOM	1943	CG	PHE B		73.428	11.693	6.924	1.00	2.00
ATOM	1944	CD1	PHE B	229	72.622	12.537	7.628	1.00	5.48
ATOM	1945	CD2	PHE B	229	73.962	10.611	7.562	1.00	6.72
ATOM	1946	CE1	PHE B		72.377	12.312	8.950	1.00	8.02
ATOM	1947	CE2	PHE B	229	73.715	10.386	8.895	1.00	10.10
ATOM	1948	CZ	PHE B		72.931	11.238	9.581	1.00	7.25
MOTA	1949	N	GLU B		72.986	12.960	2.792		12.70
ATOM	1950	CA	GLU B	230	73.372	13.493	1.503	1.00	14.49
MOTA	1951	С	GLU B	230	74.495	14.532	1.799	1.00	13.79
MOTA	1952	0	GLU's B		74.302	15.483	2.589	1.00	7.76
MOTA	1953	CB	GLU B	230	72.156	14.133	0.849	1.00	16.85
ATOM	1954	CG	GLU B	230	72.419	14.673	-0.515	1.00	31.87
ATOM	1955	CD	GLU B		71.239	14.440	-1.420		41.16
ATOM	1956	OE1	GLU B	230	71.458	14.275	-2.648	1.00	49.81
ATOM	1957	OE2	GLU B	230	70.095	14.414	-0.891	1.00	41.13
			LEU B			14.322			
ATOM	1958	N			75.673		1.201	1.00	9.30
MOTA	1959	CA	LEU B	231	.76.777	15.219	1.418	1.00	5.17
ATOM	1960	С	LEU B	231	77.002	16.101	0.205	1.00	7.83
ATOM	1961	0	LEU B		76.828	15.705	-0.945	1.00	7.46
		_							
MOTA	1962	CB	LEU B		78.027	14.435	1.772	1.00	2.00
ATOM	1963	CG	LEU B	231	77.768	13.528	2.963	1.00	6.59
ATOM	1964	CD1	LEU B		78.967	12.736	3.367	1.00	2.78
ATOM	1965	CDZ	LEU B		77.349	14.405	4.102	1.00	11.73
ATOM	1966	N	GLN B	232	77.335	17.345	0.480	1.00	10.72
ATOM	1967	CA	GLN B		77.609	18.281	-D.576		12.75
ATOM	1968	С	GLN B		79.072	18.010	-0.983		11.42
ATOM	1969	0	GLN B	232	79.899	17.627	-0.139	1.00	5.52
ATOM	1970	СВ	GLN B		77.457	19.678	0.003		20.95
MOTA	1971	CG	GLN B		76.097	20.263	-0.173		26.53
ATOM	1972	CD	GLN B	232	75.655	20.229	-1.606	1.00	33.80
ATOM	1973	OE1			76.157	20.992	-2.441		38.98
ATOM	1974	NE2	GLN B		74.698	19.351	-1.908		40.30
ATOM	1975	N	PRO B	233	79.446	18.267	-2.250	1.00	11.44
ATOM	1976	CA	PRO B		80.854	17.985	-2.583	1.00	9.90
MOTA	1977	С	PRO B		81.760	18.853	-1.750	1.00	6.72
MOTA	1978	0	PRO B	233	81.574	20.054	-1.745	1.00	8.47

					00 071	10 272	-4.041	1.00	6.48
ATOM	1979	CB	PRO B		80.971	18.373			
MOTA	1980	CG	PRO B	233	79.961	19.433	-4.208		11.42
MOTA	1981	CD	PRO B	233	78.763	18.908	-3.382	1.00	13.20
ATOM	1982	N	GLY B	234	82.736	18.253	-1.067	1.00	5.32
ATOM	1983	CA	GLY B		83.643	19.031	-0.248	1.00	3.21
			GLY B		83.303	18.771	1.181	1.00	
MOTA	1984	C					2.099		16.63
ATOM	1985	0	GLY B		83.984	19.230			
ATOM	1986	N	ALA B		82.214	18.035	1.365	1.00	
MOTA	1987	ca.	ALA B	235	81.717	17.682	2.696		14.27
ATOM	1988	С	ALA B	235	82.735	16.950	3.516	1.00	11.21
ATOM	1989	0	ALA B		83.515	16.186	2.974	1.00	13.90
	1990	СВ	ALA B		80.474	16.803	2.567	1.00	19:17
MOTA			SER B		82.680	17.105	4.826	1.00	9.48
ATOM	1991	N			83.639	16.396	5.661		11.22
ATOM	1992	CA	SER B						7.30
ATOM	1993	С	SER B		83.094	16.082	7.075	1.00	
MOTA	1994	0	SER B		82.539	16.947	7.749	1.00	5.99
ATOM	1995	CB	SER B	236	84.941	17.222	5.679	1.00	14.78
ATOM	1996	OG	SER B		85.451	17.456	6.969	1.00	21.36
ATOM	1997	N	VAL B		83.243	14.844	7.522	1.00	4.25
	1998	CA	VAL B		82.722	14.475	8.828	1.00	2.64
ATOM			VAL B		83.685	14.092	9.934	1.00	2.00
ATOM	1999	С				13.582	9.687	1.00	8.90
MOTA	2000	0	VAL B		84.727		8.646		2.00
MOTA	2001	CB	VAL B		81.681	13.370		1.00	2.00
ATOM	2002	CG1			80.572	13.953	7.825	1.00	
MOTA	2003	CG2	VAL B		82.263	12.119	8.001	1.00	2.00
MOTA	2004	N	SHE B		83.312	14.285	11.173	1.00	2.00
MOTA	2005	CA	PHE B	238	84.204	13.925	12.253	1.00	4.62
ATOM	2006	С	PHE B	238	83.487	13.402	13.517	1.00	8.48
MOTA	2007	0	PHE B	238	82.394	13.846	13.849	1.00	12.96
ATOM	2008	CB	PHE B		85.050	15.133	12.607	1.00	2.00
ATOM	2009	CG	PHE B		84.262	16.318	13.008	1.00	2.00
ATOM	2010	CD1			83.610	17.099	12.070	1.00	2.00
MOTA	2011	CD2			84.244	16.708	14.322	1.00	2.00
	2012	CE1			82.968	18.261	12.450	1.00	2.00
MOTA	2012	CE2			83.613	17.861	14.693	1.00	2.00
MOTA		CZ	PHE B		82.977	18.641	13.757	1.00	2.00
ATOM	2014					12.449	14.220		10.88
MOTA	2015	N	VAL B		84.084		15.457	1.00	7.53
MOTA	2016	CA	VAL B		83.492	11.939		1.00	
ATOM	2017	С	VAL B		84.038	12.770	16.602		
ATOM	2018	0	VAL B		85.218	13.046	16.688		15.33
ATOM	2019	CB	VAL B		83.886	10.540	15.739	1.00	2.00
MOTA	2020	CG1			83.223	10.104	16.977	1.00	2.00
MOTA	2021	CG2	VAL B		83.555	9.680	14.559	1.00	2.00
ATOM	2022	N	ASN B	240	83.176	13.146	17.513		17.73
ATOM	2023	CA	ASN B	240	83.592	13.981	18.612	1.00	13.40
MOTA	2024	С	ASN B	240	83.014	13.395	19.872	1.00	8.46
ATOM	2025	0	ASN B		81.869	12.968	19.885	1.00	11.78
ATOM	2026	CB	ASN B	240	83.016	15.359	18.378	1.00	18.22
ATOM	2027	CG	ASN B		83.434	16.319	19.411	1.00	27.63
ATOM	2028		ASN B		84.367	16.026	20.176		26.91
	2029		ASN B		82.748	17.493	19.469		29.14
ATOM					83.791	13.311	20.924	1.00	2.09
ATOM	2030	N	VAL B			12.808	22.141	1.00	2.00
MOTA	2031	CA	VAL B		83.218			1.00	4.46
MOTA	2032	С	VAL B		83.480	13.717	23.318		
MOTA	2033	0	VAL B		84.148	14.747	23.209	1.00	2.66
MOTA	2034	CB	VAL B		83.640	11.396	22.451	1.00	2.00
MOTA	2035		L VAL B		83.718	10.671	21.201	1.00	
ATOM	2036	CG2	VAL E		84.901	11.362	23.295	1.00	
ATOM	2037	N	THR E		82.878	13.363	24.439	1.00	
ATOM	2038	CA	THR E	242	83.013	14.182	25.613	1.00	10.22

7.0014	2020	~	mun	ъ	242	84.367	14.059	26.276	1.00	11.20
ATOM	2039	С	THR							14.34
MOTA	2040	0	THR			84.887	15.061	26.766		
ATOM	2041	CB	THR	В	242	81.845	13.901	26.608	1.00	8.81
MOTA	2042	OG1	THR	В	242	82.347	13.394	27.857	1.00	18.88
MOTA	2043	CG2	THR	В	242	80.904	12.885	26.003	1.00	5.23
ATOM	2044	N	ASP		243	84.933	12.856	26.318	1.00	8.93
ATOM	2045	CA	ASP			86.236	12.705	26.933	1.00	8.96
		C	ASP			87.014	11.623	26.254		13.16
MOTA	2046				243	86.987	10.449	26.678		16.76
MOTA	2047	0						28.402		13.26
MOTA	2048	CB			243	86.129	12.351			23.17
ATOM	2049	CG			243	87.489	12.136	29.028		
ATOM	2050	ODl			243	87.578	11.615	30.165		32.47
MOTA	2051	OD2	ASP	В	243	88.487	12.501	28.361		27.81
ATOM	2052	N	PRO			87.767	12.000	25.214		11.45
ATOM	2053	CA	PRO	В	244	88.548	10.997	24.500	1.00	4.37
ATOM	2054	С	PRO	В	244	89.538	10.311	25.410	1.00	2.00
ATOM	2055	0	PRO			89.846	9.139	25.233	1.00	8.28
ATOM	2056	СВ	PRO		244	89.193	11.788	23.399	1.00	2.00
ATOM	2057	CG	PRO		244	89.185	13.200	23.927	1.00	8.84
			PRO		244	87.956	13.348	24.661	1.00	9.44
ATOM	2058	CD					10.999	26.447	1.00	2.00
MOTA	2059	N	SER		245	89.973				2.00
MOTA	2060	CA	SER		245	90.940	10.396	27.340	1.00	
MOTA	2061	С	SER			90.483	9.056	27.757	1.00	4.70
ATOM	2062	0	SER	В	245	91.182	8.372	28.502		11.26
MOTA	2063	CB	SER	В	245	91.146	11.215	28.600		11.05
ATOM	2064	OG	SER	В	245	90.224	10.827	29.611	1.00	
ATOM	2065	N	GLN	В	246	89.298	8.668	27.325	1.00	8.48
ATOM	2066	CA	GLN			88.854	7.364	27.725	1.00	10.67
ATOM	2067	С	GLN			88.064	6.551	26.756	1.00	8.07
ATOM	2068	ō	GLN			87.369	5.633	27.192	1.00	4.71
ATOM	2069	СВ	GLN			88.117	7.416	29.039		15.08
	2070	CG			246	86.863	8.242	28.953		23.80
ATOM			GLN			86.478	8.792	30.302		26.96
ATOM	2071	CD					9.121	30.542		21.69
MOTA	2072					85.312				25.52
MOTA	2073	NE2			246	87.468	8.891	31.205		
MOTA	2074	N	VAL			88.166	6.865	25.462	1.00	2.86
MOTA	2075	CA	VAL			87.539	5.990	24.502	1.00	5.17
MOTA	2076	С	VAL			88.490	4.742	24.439	1.00	8.47
ATOM	2077	0	VAL	В	247	89.665	4.826	24.709	1.00	
MOTA	2078	CB	VAL	В	247	87.440	6.580	23.127	1.00	4.08
ATOM	2079	CG1	VAL	В	247	87.840	8.035	23.143	1.00	2.00
ATOM	2080	CG2	VAL	В	247	88.191	5.648	22.156	1.00	5.71
MOTA	2081	N	SER	В	248	88.005	3.571	24.100	1.00	8.43
ATOM	2082	CA	SER	В	248	88.893	2.422	24.091	1.00	9.81
ATOM	2083	С			248	89.483	2.253	22.699	1.00	8.80
ATOM	2084	ō			248	88.788	2.534	21.731	1.00	6.91
	2085	СВ			248	88.112	1.174	24.483	1.00	10.35
ATOM	2085				248	88.214	0.898	25.870	1.00	7.71
MOTA		OG					1.811	22.619	1.00	
MOTA	2087	N			249 -	90.750			1.00	4.74
MOTA	2088	CA			249	91.464	1.617	21.358		
ATOM	2089	С			249	91.915	0.226	21.038	1.00	4.68
MOTA	2090	0			249	92.447	0.000	19.943	1.00	9.07
ATOM	2091	CB	HIS	В	249	92.679	2.483	21.326	1.00	2.00
ATOM	2092	CG	HIS	В	249	92.373	3.924	21.226	1.00	2.00
ATOM	2093		HIS			91.972	4.506	20.052	1.00	2.00
ATOM	2094		HIS			92.450	4.908	22.146	1.00	2.00
ATOM	2095		HIS			91.797	5.798	20.244	1.00	3.14
ATOM	2096		HIS			92.085	6.067	21.510	1.00	9.98
ATOM	2097	. N			250	91.726	-0.698	21.971	1.00	3.21
ATOM	2098	CA			250	92.116	-2.065	21.701	1.00	2.22
AION	2000	CA	31) [D	200	52.210		,,,		

		_		252	0.7	0 401	20 275	1.00 4.50
MOTA	2099	C.	GLY B		91.691	-2.401	20.275	
ATOM	2100	0	GLY B	250	90.762	-1.815	19.697	1.00 2.68
ATOM	2101	N	THR B		92.379	-3.335	19.653	1.00 5.81
	2102	CA	THR B		91.994	-3.647	18.299	1.00 4.79
ATOM							18.207	1.00 5.66
ATOM	2103	С	THR B		90.500	-3.934		
ATOM	2104	0	THR B	251	89.925	-4.594	19.081	1.00 7.21
ATOM	2105	CB	THR B	251	92.814	-4.844	17.761	1.00 2.00
ATOM	2106	OG1	THR B		91.958	-5.782	17.092	1.00 2.00
		CG2	THR B		93.516	-5.515	18.878	1.00 2.00
ATOM	2107						17.157	
MOTA	2108	N	GLY B		89.886	-3.409		
MOTA	2109	CA	GLY B	252	88.489	-3.670	16.904	1.00 7.81
MOTA	2110	С	GLY B	252	87.422	-2.897	17.640	1.00 12.34
ATOM	2111	0	GLY B	252	86.243	-2.949	17.272	1.00 17.06
ATOM	2112	N	PHE B		87.820	-2.147	18.648	1.00 13.10
		CA	PHE B		86.845	-1.414	19.454	1.00 14.57
ATOM	2113							1.00 15.80
MOTA	2114	С	PHE B		86.241	-0.126	18.884	
ATOM	2115	0	PHE B	253	85.039	-0.056	18.699	1.00 18.04
ATOM	2116	CB	PHE B	253	87.472	-1.112	20.788	1.00 15.65
MOTA	2117	CG	PHE B	253	87.400	-2.247	21.751	1.00 12.17
ATOM	2118	CD1	PHE B		86.189	-2.755	22.113	1.00 15.61
							22.376	1.00 5.14
MOTA	2119	CD2	PHE B		88.543	-2.737		
MOTA	2120	CE1	PHE B		86.118	-3.728	23.096	1.00 19.94
ATOM	2121	CE2	PHE B	253	88.466	-3.704	23.355	1.00 8.13
ATOM	2122	CZ	PHE B	253	87.267	-4.196	23.720	1.00 13.04
ATOM	2123	N	THR B	254	87.065	0.884	18.607	1.00 11.78
MOTA	2124	CA	THR B		86.576	2.152	18.046	1.00 8.69
			THR B		86.973	2.377	16.544	1.00 11.32
ATOM	2125	C						
MOTA	2126	0	THR B		88.152	2.425	16.211	1.00 11.07
MOTA	2127	CB	THR B	254	87.123	3.327	18.834	1.00 5.48
ATOM	2128	OG1	THR B	254	86.758	3.200	20.210	1.00 2.00
ATOM	2129	CG2	THR B	254	86.608	4.624	18.247	1.00 2.00
ATOM	2130	N	SER B		85.992	2.524	15.657	1.00 8.21
	2131	CA	SER B		86.232	2.733	14.226	1.00 8.18
ATOM								
ATOM	2132	С	SER B		85.336	3.833	13.740	
MOTA	2133	0	SER B		84.511	4.325	14.487	1.00 17.06
MOTA	2134	CB	SER B	255	85.897	1.486	13.427	1.00 9.93
MOTA	2135	OG	SER B	255	85.070	0.634	14.187	1.00 21.95
ATOM	2136	N	PHE B	256	85.467	4.197	12.477	1.00 7.06
ATOM	2137	CA	PHE B		84.682	5.290	11.921	1.00 7.12
			PHE B		84.735	5.114	10.409	1.00 10.19
ATOM	2138	C						
MOTA	2139	0	PHE B		85.730	4.609	9.903	1.00 16.12
MOTA	2140	CB	PHE B		85.334	6.586	12.384	1.00 3.04
ATOM	2141	CG	PHE B	256	84.913	7.802	11.638	1.00 3.09
ATOM	2142	CD1	PHE B	256	83.580	8.031	11.316	1.00 5.02
MOTA	2143	CD2	PHE B	256	85.855	8.801	11.378	1.00 2.01
ATOM	2144		PHE B		83.180	9.270	10.745	1.00 9.86
					85.494	10.044	10.810	1.00 6.69
ATOM	2145		PHE B					
MOTA	2146	CZ	PHE B		84.151	10.292	10.492	1.00 10.34
ATOM	2147	N	GLY B	257	83.676	5.450	9.676	1.00 8.49
ATOM	2148	CA	GLY B	257	83.733	5.246	8.236	1.00 6.78
MOTA	2149	С	GLY B	257	82.443	5.511	7.479	1.00 9.04
ATOM	2150	0	GLY B		81.384	5.649	8.080	1.00 11.32
			LEU B		82.532	5.546	6.149	1.00 7.81
ATOM	2151	И						
MOTA	2152	CA	LEU B		81.399	5.859	5.287	
ATOM	2153	С	LEU B		81.469	5.224	3.934	1.00 9.42
ATOM	2154	0	LEU B	258	82.541	5.079	3.376	1.00 18.32
ATOM	2155	СВ	LEU B		81.337	7.352	5.040	1.00 2.00
ATOM	2156	CG	LEU B		82.606	7.960	4.462	1.00 2.00
ATOM	2157		LEU B		82.555	7.849	2.977	1.00 2.00
							4.865	1.00 2.00
ATOM	2158	CDZ	LEU B	230	82.707	9.415	4.000	1.00 2.00

MOTA	2159	N	LEU	В	259	80.313	4.917	3.372	1.00	8.29
ATOM	2160	CA	LEU			80.258	4.315		1.00	6.36
ATOM	2161	C	LEU			79.190	5.039		1.00	5.96
MOTA	2162	Ö	LEU			78.152	5.394	1.769	1.00	12.24
			LEU			79.945	2.841	2.217	1.00	3.71
ATOM	2163	CB								
MOTA	2164	CG	LEU			78.584	2.659	2.842	1.00	5.11
ATOM	2165	CDl	LEU			77.596	2.314	1.754	1.00	9.13
ATOM	2166	CD2	LEU			78.654	1.595		1.00	2.00
MOTA	2167	N	LYS			79.470	5.280		1.00	5.52
ATOM	2168	CA	LYS	В	260	78.571	5.986	-0.863	1.00	5.47
ATOM	2169	С	LYS	В	260	77.718	4.967	-1.654	1.00	10.02
ATOM	2170	0	LYS	В	260	78.217	3.916	-2.078	1.00	12.17
ATOM	2171	СВ	LYS			79.451	6.843		1.00	2.00
ATOM	2172	CG	LYS			78.801	7.440		1.00	2.44
ATOM	2173	CD	LYS			79.531	8.700		1.00	2.00
MOTA	2174	CE	LYS			78.785	9.342		1.00	9.05
	2175		LYS			78.289	8.357			
ATOM		NZ							1.00	
ATOM	2176	N	LEU			76.433	5.268	-1.827	1.00	
ATOM	2177	CA	LEU			75.524	4.395		1.00	
ATOM	2178	С	LEU			75.492	4.702		1.00	
ATOM	2179	0	LEU			75.606			1.00	
ATOM	2180	CB	LEU	В	261	74.126			1.00	15.31
MOTA	2181	CG	LEU	В	261	74.099	5.172	-0.569	1.00	20.03
MOTA	2182	CD1	LEU	В	261	72.682	5.223	0.033	1.00	22.93
ATOM	2183	CD2	LEU	В	261	75.025	4.362	0.336	1.00	23.51
ATOM	2184	OT	LEU	В	261	75.351				20.79
ATOM	2185	N	ASN		119	74.611		-10.631	0.00	35.61
ATOM	2186	CA	ASN			73.225		-10.900		34.20
ATOM	2187	C.	ASN		119	72.752				29.04
ATOM	2188	Ö	ASN		119	71.663				30.02
MOTA	2189	СВ	ASN			73.148		-12.291		40.99
	2190	CG	ASN		119	71.878				46.10
MOTA								-13.030		
ATOM	2191		ASN		119	70.918		-13.060		49.61
ATOM	2192	ND2	ASN		119	71.865		-13.631		49.61
ATOM	2193	N	PRO		120	73.567				22.48
ATOM	2194	CA	PRO		120	73.152				17.08
ATOM	2195	С	PRO		120	73.423			1.00	
MOTA	2196	0	PRO		120	74.565			1.00	
ATOM	2197	CB	PRO	С	120		-10.900		1.00	4.75
MOTA	2198	CG	PRO	С	120	75.219	-10.305	-9.402	1.00	22.05
ATOM	2199	CD	PRO	С	120	74.887	-8.978	-10.121	1.00	20.94
MOTA	2200	N	GLN	С	121	72.389	-8.905	-6.405	1.00	7.54
ATOM	2201	CA	GLN	С	121	72.657	-8.413	-5.079	1.00	10.61
ATOM	2202	С	GLN	С	121	73.148	-9.552	-4.166	1.00	7.09
ATOM	2203	0	GLN	С	121	72.693	-10.696		1.00	6.20
ATOM	2204	СВ	GLN			71.411			1.00	14.71
ATOM	2205	CG	GLN			70.701				25.02
ATOM	2206	CD	GLN			70.647				36.78
ATOM	2207	OE1	GLN			71.685		-5.203	1.00	
MOTA	2208	NE2	GLN			69.437		-5.266	1.00	
	2209	_								4.45
MOTA		N	ILE		122	74.164			1.00	
ATOM	2210	CA	ILE		122		-10.300		1.00	4.96
ATOM	2211	C	ILE			74.483			1.00	6.28
ATOM	2212	0	ILE			75.072			1.00	5.08
ATOM	2213	CB	ILE		122		-10.660		1.00	6.82
MOTA	2214	CG1	ILE			76.384		-3.889	1.00	8.88
ATOM	2215	CG2	ILE	С	122	76.678	-11.395	-1.395	1.00	2.00
ATOM	2216	CD1	ILE	С	122	76.942	-10.744	-5.061	1.00	2.00
ATOM	2217	N	ALA	С	123	73.662	-10.399	-0.258	1.00	7.86
ATOM	2218	CA	ALA			73.433			1.00	3.33

ATOM	2219	c ·	ALA C	123	73.010 -11.092	1.859	1.00	3.50
			ALA C		72.645 -12.125	1.271	1.00	2.00
ATOM	2220	0	ALA C			1.032	1.00	8.76
ATOM	2221	CB						
MOTA	2222	N	ALA C		73.029 -10.933	3.179	1.00	2.00
ATOM	2223	CA	ALA C		72.611 -12.018	4.042	1.00	4.58
ATOM	2224	С	ALA C		72.332 -11.593	5.423	1.00	9.85
ATOM	2225	0	ALA C	124	73.214 -10.992	6.055	1.00	12.22
ATOM	2226	CB	ALA C	124	73.639 -13.145	4.100	1.00	2.00
ATOM	2227	N	HIS C	125	71.115 -11.935	5.887	1.00	9.67
ATOM	2228	CA	HIS C	125	70.710 -11.671	7.258	1.00	7.50
ATOM	2229	C	HIS C		70.382 -13.030	7.807	1.00	5.43
ATOM	2230	Ö	HIS C		69.550 -13.692	7.240	1.00	6.70
	2231	СВ		125	69.471 -10.779	7.359	1.00	7.24
MOTA			HIS C					
ATOM	2232	CG			69.240 -10.263	8.745	1.00	2.91
ATOM	2233		HIS C		70.057 -9.328	9.333	1.00	7.33
ATOM	2234			125	68.353 -10.625	9.694	1.00	2.00
ATOM	2235		HIS C		69.688 -9.135	10.585	1.00	2.43
ATOM	2236	NE2	HIS C	125	68.649 -9.909	10.828	1.00	2.00
MOTA	2237	N	VAL C	126	71.055 -13.459	8.874	1.00	4.16
ATOM	2238	CA	VAL C	126	70.786 -14.764	9.486	1.00	4.52
ATOM	2239	С	VAL C	126	70.406 -14.572	10.973	1.00	5.40
ATOM	2240	0	VAL C	126	70.903 -13.641	11.647	1.00	3.95
ATOM	2241	СВ	VAL C		72.001 -15.676	9.441	1.00	4.00
ATOM	2242		VAL C		72.289 -16.098	8.034	1.00	2.00
ATOM	2243		VAL C		73.165 -14.971	10.110	1.00	4.20
	2243		ILE C		69.574 -15.494			
ATOM		N				11.479	1.00	2.90
ATOM	2245	CA	ILE C		69.040 -15.445	12.832	1.00	2.00
ATOM	2246	С	ILE C		69.778 -16.195	13.887	1.00	2.00
ATOM	2247	0	ILE C		70.229 -17.293	13.673	1.00	2.00
MOTA	2248	CB	ILE C		67.639 -15.933	12.842	1.00	3.47
ATOM	2249	CG1	ILE C	127	66.719 -14.903	12.183	1.00	3.92
MOTA	2250	CG2	ILE C	127	67.218 -16.129	14.246	1.00	8.87
MOTA	2251	CD1	ILE C	127	67.190 -14.287	10.848	1.00	5.86
ATOM	2252	N	SER C	128	69.879 -15.595	15.058	1.00	2.00
ATOM	2253	CA	SER C	128	70.636 -16.228	16.112	1.00	3.50
ATOM	2254	С	SER C	128	70.097 -17.572	16.394	1.00	4.63
ATOM	2255	0	SER C	128	68.926 -17.786	16.178	1.00	10.55
ATOM	2256	CB	SER C		70.632 -15.368	17.362	1.00	2.07
ATOM	2257	OG	SER C		69.508 -15.641	18.146		10.37
ATOM	2258	N	GLU C		70.958 -18.497	16.819		10.30
ATOM	2259	CA	GLU C		70.560 -19.882	17.142	1.00	8.25
	2260	C	GLU C		71.345 -20.391	18.327	1.00	2.51
ATOM					72.543 -20.509	18.216	1.00	
ATOM	2261	0	GLU C					2.00
ATOM	2262	CB	GLU C		70.826 -20.807	15.960		6.46
MOTA	2263	CG	GLU C		70.198 -22.163	16.120		17.00
MOTA	2264	CD	GLU C		68.923 -22.281	15.321		24.69
MOTA	2265	OE1			68.074 -21.335	15.410		24.86
MOTA	2266	OE2	GLU C	129	68.798 -23.316	14.613		25.19
MOTA	2267	N	ALA C	130	70.678 -20.708	19.438	1.00	4.21
MOTA	2268	CA	ALA C	130	71.369 -21.176	20.631	1.00	6.03
MOTA	2269	С	ALA (71.963 -22.557	20.367	1.00	10.01
MOTA	2270	0	ALA C		71.543 -23.219	19.456	1.00	18.26
ATOM	2271	СВ	ALA C		70.442 -21.200	21.735	1.00	6.28
ATOM	2272	N	SER C		72.966 -22.989	21.121		16.93
ATOM	2273	CA	SER C		73.604 -24.284	20.838		25.17
ATOM	2274	C	SER C		74.406 -24.856	22.020		26.98
ATOM	2275	0	SER C		75.175 -24.148	22.695		21.36
								29.03
ATOM	2276	CB	SER C		74.502 -24.150	19.596		
ATOM	2277	OG	SER C		75.863 -24.414	19.893		38.47
ATOM	2278	N	SER C	132	74.193 -26.150	22.251	1.00	29.65

ATOM	2279	CA	SER C 132			-26.872	23.347	1.00	
ATOM	2280	С	SER C 132	76.3	301	-27.048	23.161	1.00	
ATOM	2281	Ō	SER C 132	77.0	35	-27.257	24.148	1.00	37.97
ATOM	2282	СВ	SER C 132			-28.243	23.492	1.00	34.57
		OG	SER C 132			-28.426	22:461	1.00	39.55
ATOM	2283		LYS C 133			-26.974	21.892	1.00	
ATOM	2284	N				-27.112	21.498	1.00	
ATOM	2285	CA	LYS C 133				22.428	1.00	
MOTA	2286	С	LYS C 133			-26.309		1.00	
ATOM	2287	0	LYS C 133			-25.538	23.257		
ATOM	2288	CB	LYS C 133			-26.612	20.068	1.00	
ATOM	2289	CG	LYS C 133			-27.713	19.050	1.00	
ATOM	2290	CD	LYS C 133			-28.966	19.419	1.00	
ATOM	2291	CE	LYS C 133	78.	521	-29.953	20.253		63.59
ATOM	2292	NZ	LYS C 133	77.	896	-30.298	21.563	1.00	61.40
ATOM	2293	N	THR C 134	80.	306	-26.465	22.294	1.00	48.26
	2294	CA	THR C 134			-25.700	23.167	1.00	48.69
MOTA			THR C 134			-24.777	22.362	1.00	46.67
ATOM	2295	С				-25.199	21.780		51.01
MOTA	2296	0	THR C 134			-26.617	24.057		49.72
ATOM	2297	CB	THR C 134			-27.874	24.251		55.27
ATOM	2298	OG1					25.393		47.73
ATOM	2299	CG2				-25.962			
MOTA	2300	N	THR C 135			-23.515	22.298		39.82
ATOM	2301	CA	THR C 135			-22.538	21.603		38.18
MOTA	2302	С	THR C 135			-21.190	22.098		39.61
ATOM	2303	0	THR C 135	81.	083	-21.063	22.781		45.99
ATOM	2304	СВ	THR C 135	82.	291	-22.511	20.116		33.22
ATOM	2305	OG1		80.	954	-22.891	19.838	1.00	27.08
ATOM	2306	CG2		83.	244	-23.431	19.418	1.00	39.22
ATOM	2307	N	SER C 136			-20.182	21.781	1.00	33.04
ATOM	2308	CA	SER C 136			-18.849	22.162	1.00	26.61
	2309	C	SER C 136			-18.255	20.869	1.00	21.39
MOTA	2310	Ö	SER C 136			-17.111	20.839		27.32
MOTA			SER C 136			-18.080	22.662		28.67
ATOM	2311	CB	SER C 136			-18.025	21.649		38.84
ATOM	2312	OG				-19.028	19.793		12.94
MOTA	2313	N	VAL C 13			-18.576	18.481		10.86
ATOM	2314	CA	VAL C 13				18.364	1.00	9.42
MOTA	2315	С	VAL C 13			-18.875		1.00	9.35
ATOM	2316	0	VAL C 13			-20.018	18.503		
ATOM	2317	CB	VAL C 13			-19.310	17.349	1.00	7.47
MOTA	2318	CG1				-20.777	17.756	1.00	
MOTA	2319	CG2				-19.218	15.998	1.00	2.00
ATOM	2320	N	LEU C 13			-17.832	18.083	1.00	5.61
MOTA	2321	CA	LEU C 13			-17.958	17.949	1.00	2.87
MOTA	2322	С	LEU C 13			-18.626			
ATOM	2323	0	LEU C 13	78.	063	-18.365	15.563	1.00	7.20
ATOM	2324	СВ	LEU C 13	77.	363	-16.571	18.046	1.00	2.00
ATOM	2325	CG	LEU C 13	77.	718	-15.525	19.122	1.00	2.19
ATOM	2326		LEU C 13			-14.276	18.682	1.00	2.24
ATOM	2327		LEU C 13			-15.903	20.581	1.00	2.00
ATOM	2328	N N	GLN C 13			-19.401	16.785		10.81
			GLN C 13			-20.109	15.716	1.00	
MOTA	2329	CA				-19.177	15.063	1.00	
ATOM	2330	С	GLN C 13				15.593	1.00	
MOTA	2331	0	GLN C 13			-18.113	16.308	1.00	
MOTA	2332	CB	GLN C 13			-21.262			23.42
MOTA	2333	CG	GLN C 13			-22.273	16.950		
ATOM	2334	CD	GLN C 13			-23.238	15.933		34.50
MOTA	2335	OE:	1 GLN C 13			-23.944	15.194		33.17
ATOM	2336	NE:	2 GLN C 13			-23.266	15.871		40.38
ATOM	2337	N	TRP C 14	74	.170	-19.560	13.912	1.00	
ATOM	2338	CA	TRP C 14	73	.189	-18.727	13.244	1.00	6.52

ATOM	2339	С	TRP C 140		72.392 -	19.671		1.00 1	
ATOM	2340	0	TRP C 140		72.908 -	20.699	12.015	1.00 1	
MOTA	2341	СВ	TRP C 140		73.850 -	17.696	12.312		2.72
ATOM	2342	CG	TRP C 140		74.850 -	16.869	12.995	1.00	2.00
ATOM	2343	CD1	TRP C 140		76.149 -	17.176	13.172	1.00	5.40
ATOM	2344	CD2	TRP C 140		74.596 -	15.721	13.796	1.00	2.31
ATOM	2345	NE1	TRP C 140		76.729 -	16.308	14.047	1.00	9.68
	2346	CE2	TRP C 140		75.790 -	-15.405	14.452	1.00	5.37
MOTA	2347		TRP C 140		73.462 -	-14.937	14.031	1.00	3.33
MOTA	2348	C7.2	TRP C 140		75.894 -	-14.336	15.331	1.00	7.91
ATOM ATOM	2349	CZ3			73.554 -	-13.878	14.903	1.00	2.00
	2350	CH2			74.764 -	-13.584	15.547	1.00	7.78
MOTA	2351	N	ALA C 141		71.128 -		12.184	1.00	
ATOM	2352	CA	ALA C 141		70.260 -	-20.189	11.371	1.00	8.05
MOTA	2353	C	ALA C 141		69.569 -	-19.378	10.294	1.00	5.19
MOTA	2354	Ö	ALA C 141		69.241 ·	-18.195	10.464	1.00	5.27
ATOM	2355	CB	ALA C 141		69.241	-20.900	12.236	1.00	2.07
ATOM	2356	И	GLU C 142		69.372	-20.035	9.169	1.00	2.00
ATOM		CA	GLU C 142		68.746	-19.402	8.042	1.00	2.87
ATOM	2357	CA	GLU C 142		67.235	-19.640	8.125	1.00	9.52
ATOM	2358	0	GLU C 142		66.660		7.235	1.00	7.73
ATOM	2359	CB	GLU C 142		69.309	-20.047	6.809	1.00	2.00
ATOM	2360	CG	GLU C 142		69.381	-19.190	5.577	1.00	3.82
MOTA	2361	CD	GLU C 142		70.091	-19.957	4.472	1.00	4.40
MOTA	2362	OE1			71.217	-20.385	4.774	1.00	5.04
ATOM	2363	OE			69.554	-20.171	3.346	1.00	2.24
ATOM	2364	N N	LYS C 143			-19.128	9.198	1.00	8.89
ATOM	2365	CA	LYS C 143		65.176	-19.301	9.440	1.00	5.37
ATOM	2366	C	LYS C 143		64.483	-17.962	9.694	1.00	7.37
ATOM	2367	0	LYS C 143			-16.919	9.419	1.00	10.01
ATOM	2368	CB	LYS C 143			-20.208	10.659	1.00	2.00
MOTA	2369 2370	CG	LYS C 143			-19.784	11.856	1.00	2.00
MOTA	2371	CD	LYS C 143			-20.564	13.075	1.00	2.00
MOTA	2371	CE	LYS C 143		66.323	-21.746	13.299	1.00	2.00
ATOM	2372		LYS C 143		65.836	-22.780	14.256	1.00	6.23
MOTA MOTA	2374		GLY C 14		63.279	-17.988	10.266	1.00	5.88
ATOM	2375				62.587	-16.749	10.543	1.00	4.85
ATOM	2376		GLY C 14		62.644	-15.810	9.360	1.00	9.38
ATOM	2377		GLY C 14			-16.257	8.215		11.38
ATOM	2378		TYR C 14			-14.514	9.623		10.24
MOTA	2379				62.525	-13.492	8.565		11.20
MOTA	2380		TYR C 14		64.023	-13.218	8.316		11.78
MOTA	2381		TYR C 14		64.570	-12.202	8.754	1.00	
ATOM	2382	. ~-	TYR C 14	5	61.839	-12.176	8.998		11.45
ATOM	2383		4 4	5	61.447	-11.267	7.860		9.39
ATOM	2384	CI	1 TYR C 14		60.137	-11.028	7.587		11.71
ATOM	2385		2 TYR C 14	5	62.377	-10.790	6.972		17.93
ATOM	2386				59.737	-10.362	6.455		13.18
ATOM	2387					-10.112			22.91
ATOM	2388				60.651		_		17.43
ATOM	2389		H TYR C 14	5	60.239	-9.291			17.69
ATOM	2390			6	64.681	-14.12]	7.602		
ATOM	239				66.085	-13.962	7.324		
ATOM	2392				66.355	-13.549	5.886	1.00	
ATOM	239				65.451	-13.354	5.081		12.20
ATOM					66.773	-15.263	7.562		
ATOM		_			66.575	-16.218	6.414		
ATOM	_		D1 TYR C 14		65.589	-17.20	5 6.449		
MOTA		7 C	D2 TYR C 14	6	67.42	1 -16.19	1 5.33		
MOTA			E1 TYR C 1		65.485	5 -18.11	8 5.443	1 1.00	4.98

MOTA	2399	CE2	TYR C	146 .	67.313 -17.09		1.00 4.93
ATOM	2400	CZ	TYR C	146	66.350 -18.05	3 4.391	1.00 4.21
ATOM	2401	ОН	TYR C	146	66.258 -18.93	3.369	1.00 13.39
					67.638 -13.44		1.00 11.29
ATOM	2402	N	THR C				
ATOM	2403	CA	THR C	147	68.074 -13.07		1.00 8.86
ATOM	2404	С	THR C	147	69.294 -13.88	19 3.796	1.00 5.49
ATOM	2405	0	THR C	147	70.181 -14.18	0 4.592	1.00 2.00
ATOM	2406	СВ	THR C		68.406 -11.58		1.00 7.34
					67.227 -10.79		1.00 13.11
ATOM	2407	OG1	THR C				
ATOM	2408	CG2	THR C		68.895 -11.30		1.00 2.00
ATOM	2409	N	MET C	148	69.278 -14.26	59 2.523	1.00 3.64
MOTA	2410	CA	MET C	148	70.328 -15.03	30 1.889	1.00 4.95
ATOM	2411	С	MET C	148	70.019 -14.89	0.389	1.00 11.65
ATOM	2412	0	MET C		69.395 -15.75		1.00 13.70
	2413	СВ	MET C		70.220 -16.45		1.00 2.00
ATOM							
ATOM	2414	CG	MET C		71.435 -17.27		1.00 2.00
ATOM	2415	SD	MET C		72.857 -16.60		1.00 7.76
ATOM	2416	CE	MET C	148	72.750 -17.17	0 4.666	1.00 2.27
MOTA	2417	N	SER C	149	70.450 -13.78	39 -0.196	1.00 16.78
ATOM	2418	CA	SER C	149	70.178 -13.52		1.00 17.29
ATOM	2419	C	SER C		70.617 -14.60		1.00 17.77
ATOM	2420	0	SER C		70.045 -14.70		1.00 19.45
ATOM	2421	CB	SER C		70.792 -12.19		1.00 21.50
MOTA	2422	OG	SER C	149	72.170 -12.13	31 -1.667	1.00 31.57
ATOM	2423	N	ASN C	: 150	71.640 -15.37	78 -2.235	1.00 20.27
ATOM	2424	CA	ASN C	: 150	72.088 -16.44		1.00 26.37
ATOM	2425	С	ASN C		73.341 -17.19		1.00 25.82
	2426			150	73.877 -16.92		1.00 26.03
ATOM		0					
MOTA	2427	CB	ASN C		72.326 -15.90		1.00 26.98
ATOM	2428	CG	ASN C		73.235 -14.71		1.00 27.55
MOTA	2429	ODl	ASN C	: 150	74.285 -14.71	8 -3.946	1.00 24.88
MOTA	2430	ND2	ASN C	: 150	72.837 -13.67	76 -5.304	1.00 35.98
ATOM	2431	N	ASN C	151	73.798 -18.12	29 -3.522	1.00 21.47
ATOM	2432	CA	ASN C		74.978 -18.91		1.00 16.63
	2433	C	ASN C		76.257 -18.08		1.00 15.96
ATOM							
MOTA	2434	0	ASN C		77.335 -18.56		1.00 15.49
MOTA	2435	CB	ASN C		75.053 -20.08		1.00 19.36
MOTA	2436	CG	ASN C	: 151	73.855 -20.95	51 -4.072	1.00 21.22
ATOM	2437	OD1	ASN C	: 151	73.431 -21.54	12 -5.065	1.00 28.59
ATOM	2438	ND2	ASN C		73.293 -21.05	0 -2.878	1.00 27.63
ATOM	2439	N	LEU C		76.139 -16.82		1.00 14.78
ATOM	2440	CA	LEU C		77.307 -15.97		1.00 10.04
MOTA	2441	С	LEU C		77.714 -15.63		1.00 9.53
ATOM	2442	0	LEU C		78.774 -15.04		1.00 13.72
ATOM	2443	CB	LEU C		77.000 -14.70	01 -4.638	1.00 13.39
ATOM	2444	CG	LEU C	: 152	77.014 -14.95	55 -6.168	1.00 13.40
MOTA	2445	CD1	LEU C		77.997 -16.12		1.00 10.51
ATOM	2446		LEU C		75.617 -15.32		1.00 10.97
ATOM	2447	N	VAL C		76.820 -15.92		1.00 9.35
MOTA	2448	CA	VAL C		77.058 -15.77		1.00 5.03
ATOM	2449	С	VAL C		76.406 -16.99		1.00 4.87
ATOM	2450	0	VAL C	: 153	75.327 -17.39	0.163	1.00 6.69
ATOM	2451	CB	VAL C	: 153	76.455 -14:55	0.573	1.00 2.00
ATOM	2452	CG1			75.395 -14.94		1.00 2.00
ATOM	2453		VAL C		77.508 -13.83		1.00 2.53
	2454						
ATOM		N	THR C		77.092 -17.65		
ATOM	2455	CA	THR C		76.569 -18.87		1.00 7.68
MOTA	2456	С	THR C		76.890 -19.00		1.00 13.24
ATOM	2457	0	THR C	154	78.001 -18.64	3.943	1.00 13.27
ATOM	2458	CB	THR C	: 154	77.161 -20.08	33 1.282	1.00 5.48

л том	2459	061	THR C 154	78.070 -20.788	2.140	1.00 9.39
ATOM	2459	CG2	THR C 154	77.890 -19.627	0.037	1.00 11.10
ATOM ATOM	2461	N CG2	LEU C 155	75.902 -19.484	4.280	1.00 12.27
ATOM	2462	CA	LEU C 155	76.049 -19.652	5.722	1.00 9.25
ATOM	2463	C	LEU C 155	76.505 -21.051	5.967	1.00 8.56
ATOM	2463	0	LEU C 155	75.718 -21.951	5.836	1.00 15.66
ATOM	2465	СВ	LEU C 155	74.702 -19.456	6.447	1.00 9.58
ATOM	2466	CG	LEU C 155	74.650 -19.299	7.996	1.00 5.47
ATOM	2467	CD1		73.270 -19.493	8.411	1.00 10.52
ATOM	2468	CD2	LEU C 155	75.463 -20.297	8.802	1.00 2.45
ATOM	2469	N	GLU C 156	77.773 -21.266	6.270	1.00 8.49
ATOM	2470	CA	GLU C 156	78.183 -22.619	6.530	1.00 5.04
ATOM	2471	C	GLU C 156	78.528 -22.832	7.938	1.00 8.11
ATOM	2472	Ō	GLU C 156	79.018 -21.924	8.612	1.00 8.96
ATOM	2473	СВ	GLU C 156	79.351 -23.036	5.668	1.00 13.43
ATOM	2474	CG	GLU C 156	80.634 -22.243	5.814	1.00 20.00
ATOM	2475	CD	GLU C 156	81.359 -22.198	4.492	1.00 24.87
ATOM	2476	OE1	GLU C 156	80.670 -22.511	3.490	1.00 16.45
ATOM	2477	OE2	GLU C 156	82.580 -21.867	4.461	1.00 28.80
ATOM	2478	N	ASN C 157	78.250 -24.070	8.344	1.00 14.44
ATOM	2479	CA	ASN C 157	78.432 -24.604	9.685	1.00 12.98
ATOM	2480	С	ASN C 157	77.596 -23.904	10.737	1.00 10.69
ATOM	2481	0	ASN C 157	77.692 -24.160	11.926	1.00 11.39
ATOM	2482	СВ	ASN C 157	79.890 -24.583	10.037	1.00 12.91
ATOM	2483	CG	ASN C 157	80.562 -25.835	9.609	1.00 23.56
ATOM	2484	OD1	ASN C 157	81.007 -25.942	8.466	1.00 23.53
ATOM	2485	ND2	ASN C 157	80.620 -26.823	10.513	1.00 29.42
ATOM	2486	N	GLY C 158	76.726 -23.022	10.297	1.00 12.28
ATOM	2487	CA	GLY C 158	75.925 -22.318	11.262	1.00 14.39
ATOM	2488	С	GLY C 158	76.836 -21.523	12.148	1.00 14.74
ATOM	2489	0	GLY C 158	76.426 -21.143	13.228	1.00 17.93
MOTA	2490	N	LYS C 159	78.068 -21.287	11.692	1.00 19.01
ATOM	2491	CA	LYS C 159	79.048 -20.524	12.457	1.00 17.72
MOTA	2492	С	LYS C 159	79.460 -19.260	11.719	1.00 13.40
MOTA	2493	0	LYS C 159	79.525 -18.180	12.341	1.00 10.84 1.00 22.12
MOTA	2494	CB	LYS C 159	80.300 -21.360	12.767	1.00 22.12
MOTA	2495	CG	LYS C 159	80.182 -22.846	12.438 13.676	1.00 34.27
MOTA	2496	CD	LYS C 159	79.829 -23.710 79.898 -25.251	13.392	1.00 40.27
MOTA	2497	CE	LYS C 159	79.598 -25.231	14.577	1.00 51.73
MOTA	2498	NZ	LYS C 159	79.713 -19.367	10.412	1.00 51.72
ATOM	2499	N	GLN C 160 GLN C 160	80.138 -18.180	9.677	1.00 8.79
ATOM	2500 2501	CA C	GLN C 160	79.471 -17.957	8.336	1.00 8.86
ATOM	2502	0	GLN C 160	78.771 -18.826	7.808	1.00 9.35
MOTA MOTA	2502	СВ	GLN C 160	81.622 -18.228	9.427	1.00 8.66
ATOM	2504	CG	GLN C 160	81.915 -19.049	8.156	1.00 14.70
ATOM	2505	CD	GLN C 160	82.705 -20.294	8.418	1.00 12.19
ATOM	2506	OE:		83.290 -20.871	7.499	1.00 12.08
ATOM	2507		2 GLN C 160	82.721 -20.733	9.676	1.00 15.76
ATOM	2508	N	LEU C 161	79.723 -16.777	7.784	1.00 4.16
ATOM	2509	CA	LEU C 161	79.160 -16.417	6.502	1.00 4.59
ATOM	2510	С	LEU C 161	80.370 -16.363	5.622	1.00 6.64
ATOM	2511	Ō	LEU C 161	81.354 -15.748	5.992	1.00 12.59
ATOM	2512	CB	LEU C 161	78.519 -15.040	6.576	1.00 5.27
ATOM	2513	CG	LEU C 161	77.201 -14.919	7.311	1.00 2.00
ATOM	2514	CD		76.971 -13.492	7.715	1.00 2.00
ATOM	2515			76.096 -15.424	6.409	1.00 6.63
ATOM	2516		THR C 162	80.308 -16.996	4.464	1.00 7.81
ATOM	2517			81.445 -17.036	3.558	1.00 10.34
MOTA	2518		THR C 162	81.098 -16.389	2.219	1.00 13.48

ATOM	2519	0	THR C	162	80.035	-16.643	1.656	1.00 18.89
ATOM	2520	CB	THR C		81.845	-18.516	3.300	1.00 10.45
MOTA	2521	OG1	THR C	162	82.480	-19.074	4.466	1.00 7.74
ATOM	2522	CG2	THR C	162	82.730	-18.617	2.092	1.00 8.79
ATOM	2523	N	VAL C	163	82.013	-15.608	1.666	1.00 14.42
ATOM	2524	CA		163	81.742	-14.982	0.374	1.00 13.44
ATOM	2525	С		163	82.612	-15.583	-0.763	1.00 13.42
ATOM	2526	ō		163		-15.931	-0.583	1.00 12.99
ATOM	2527	СВ	VAL C			-13.492	0.475	1.00 10.61
ATOM	2528			163		-12.901	1.287	1.00 10.93
ATOM	2529		VAL C			-13.218	1.164	1.00 5.95
ATOM	2530	N	LYS C			-15.746	-1.929	1.00 13.04
ATOM	2531	CA		164		-16.300	-3.059	1.00 12.19
ATOM	2532	c.	LYS C			-15.201	-3.931	1.00 13.34
ATOM	2533	Õ	LYS C			-15.493	-4.765	1.00 17.81
ATOM	2534	СВ		164		-17.117	-3.915	1.00 8.85
ATOM	2535	CG	LYS C			-18.172	-3.186	1.00 12.34
ATOM	2536	CD	LYS C			-19.366	-4.107	1.00 20.57
ATOM	2537	CE	LYS C	164		-20.484	-3.349	1.00 30.64
ATOM	2538	NZ		164		-20.833	-2.026	1.00 39.30
ATOM	2539	N		165		-13.960	-3.783	1.00 13.79
ATOM	2540	CA		165		-12.877	-4.620	1.00 13.75
ATOM	2541	C	ARG C			-11.873	-3.846	1.00 16.19
MOTA	2542	ō		165		-11.409	-2.816	1.00 25.80
ATOM	2543	СВ	ARG C			-12.158	-5.331	1.00 9.56
ATOM	2544	CG	ARG C			-12.801	-6.683	1.00 11.10
ATOM	2545	CD	ARG C			-13.153	-6.900	1.00 4.82
ATOM	2546	NE	ARG C			-12.201	-7.778	1.00 2.00
ATOM	2547	CZ	ARG C			-12.534	-8.961	1.00 3.35
ATOM	2548		ARG C			-13.784	-9.406	1.00 2.00
ATOM	2549		ARG C			-11.611	-9.702	1.00 4.71
ATOM	2550	N		166		-11.533	-4.310	1.00 18.26
ATOM	2551	CA	GLN C			-10.515	-3.598	1.00 18.60
ATOM	2552	c	GLN C		85.301		-3.619	1.00 16.62
ATOM	2553	ō		166	84.372		-4.422	1.00 16.65
ATOM	2554	СВ	GLN C			-10.287	-4.283	1.00 20.80
ATOM	2555	CG	GLN C		87.385		-5.603	1.00 19.95
ATOM	2556	CD		166	88.542		-6.543	1.00 25.21
ATOM	2557	OE1				-10.784	-6.238	1.00 23.10
ATOM	2558	NE2			88.621		-7.688	1.00 27.96
ATOM	2559	N	GLY C		85.625		-2.739	1.00 10.83
ATOM	2560	CA	GLY C		84.877		-2.753	1.00 9.97
ATOM	2561	C.	GLY C		84.753		-1.433	1.00 14.19
ATOM	2562	Ö	GLY C			-6.752		
ATOM	2563	N	LEU C		84.062		-1.503	1.00 14.09
ATOM	2564	CA	LEU C		83.769		-0.347	1.00 12.51
ATOM	2565	c c	LEU C		82.411		0.183	1.00 8.52
ATOM	2566	0	LEU C		81.534		-0.574	1.00 11.49
ATOM	2567	СВ	LEU C		83.661	-	-0.784	1.00 22.27
ATOM	2568	CG	LEU C		84.737		-0.356	1.00 24.73
ATOM	2569		LEU C		85.498		0.903	1.00 30.79
ATOM	2570		TEA C		85.700		-1.487	1.00 22.33
MOTA	2571	N N	TYR C		82.230		1.476	1.00 2.00
ATOM	2572	CA	TYR C		80.990		1.994	1.00 3.65
ATOM	2573	C	TYR C		80.683		3.256	1.00 10.00
ATOM	2574	0	TYR C		81.594		3.902	1.00 10.38
ATOM	2575	CB	TYR C		81.151		2.357	1.00 3.71
ATOM	2576	CG	TYR C		81.225		1.180	1.00 10.42
ATOM	2577		TYR C		82.431		0.547	1.00 15.28
MOTA	2578		TYR C		80.117		0.761	1.00 12.74
	_3.3	-52	0		30.21,	0.000	0.,01	_ · · · · ·

ATOM	2579	CEl	TYR C	169	82	2.535	-9.055	-0.481	1.00	9.92
ATOM	2580	CE2		169	81	0.218	-9.501	-0.258	1.00	10.17
								-0.864		
MOTA	2581	CZ	TYR C			1.419	-9.751			4.76
ATOM	2582	OH	TYR C	169	8:	L.448	-10.708	-1.843	1.00	2.00
ATOM	2583	N	TYR C	170	79	9.401	-4.365	3.581	1.00	10.58
			TYR C			9.065	-3.706	4.835	1.00	9.72
ATOM	2584	CA								
ATOM	2585	С	TYR C	170	71	3.725	-4.904	5.747	1.00	8.93
MOTA	2586	0	TYR C	170	7'	7.844	-5.690	5.429	1.00	11.47
ATOM	2587	CB	TYR C			7.857	-2.810	4.709	1.00	8.23
		CG	TYR C			7.513	-2.233	6.056	1.00	7.25
ATOM	2588									
MOTA	2589	CD1		170		3.356	-1.334	6.680	1.00	2.23
ATOM	2590	CD2	TYR C	170	7	6.394	-2.647	6.731	1.00	10.31
ATOM	2591		TYR C		7:	3.107	-0.856	7.960	1.00	14.33
	2592	CE2	TYR C			5.121	-2.182	8.023		16.20
ATOM										
MOTA	2593	CZ	TYR C			6.993	-1.277	8.652	1.00	18.37
ATOM	2594	OH	TYR C	170	7	6.794	-0.832	9.973	1.00	17.42
ATOM	2595	N	ILE C	171	7:	9.444	-5.083	6.843	1.00	6.00
ATOM	2596	CA	ILE C			9.218	-6.245	7.705	1.00	5.29
MOTA	2597	С	IPE C			B.784	-5.815	9.072	1.00	7.00
MOTA	2598	0	ILE C	171	7:	9.330	-4.852	9.641	1.00	5.44
MOTA	2599	CB	ILE C	171	8	0.512	-7.073	7.818	1.00	13.80
ATOM	2600	CG1				0.888	-7.607	6.421	1.00	
MOTA	2601	CG2	ILE C			0.388	-8.154	8.921	1.00	7.30
ATOM	2602	CD1	ILE C	171		2.300	-8.254	6.346	1.00	23.47
ATOM	2603	N	TYR C	172	7	7.807	-6.558	9.594	1.00	7.90
ATOM	2604	CA	TYR C	172		7.206		10.883	1.00	4.87
	2605	C	TYR C			6.760		11.695	1.00	4.08
ATOM										
ATOM	2606	0	TYR C			6.612		11.201	1.00	8.43
ATOM	2607	CB	TYR C	172	7	5.999	-5.334	10.708	1.00	6.89
ATOM	2608	CG	TYR C	172	7	4.848	-5.958	9.968	1.00	2.01
ATOM	2609	CD1	TYR C			4.800		8.589	1.00	5.83
	2610	CD2	TYR C			3.818	-6.589	10.656	1.00	5.48
ATOM										
ATOM	2611	CE1	TYR C			3.752		7.911		11.44
ATOM	2612	CE2	TYR C	172	7	2.765	-7.205	9.999	1.00	4.46
ATOM	2613	CZ	TYR C	172	7.	2.735	-7.195	8.627	1.00	11.47
ATOM	2614	ОН	TYR C			1.718		7.952		13.34
	2615	N	ALA C			6.563	-7.186	12.972	1.00	4.22
ATOM										
MOTA	2616	CA	ALA C			6.098	-8.217	13.862	1.00	6.25
ATOM	2617	С	ALA C	173	7	5.455	-7.464	15.022	1.00	10.37
MOTA	2618	0	ALA C	173	7	6.067	-6.557	15.635	1.00	10.52
ATOM	2619	CB	ALA C			7.260		14.341	1.00	2.00
ATOM	2620	N	GLN C			4.180		15.272		12.51
ATOM	2621	CA	GLN C			3.478		16.374		10.00
MOTA	2622	С	GLN C	174	7	3.509	-8.238	17.422	1.00	3.42
ATOM	2623	0	GLN C	174	7	3.243	-9.403	17.140	1.00	2.00
ATOM	2624	CB	GLN C			2.030		15.990		15.69
ATOM	2625	CG	GLN C			1.561		16.575		25.93
ATOM	2626	CD	GLN C			0.626		17.845		34.46
ATOM	2627	OE1	GLN C	174	6	9.859	-4.589	18.118	1.00	37.19
MOTA	2628	NE2				0.720		18.609	1.00	33.63
ATOM	2629	N	VAL C			3.915		18.621	1.00	2.18
MOTA	2630	CA	VAL C			3.916		19.663	1.00	6.88
ATOM	2631	С	VAL C	175	7	3.493	-8.312	20.998	1.00	11.85
ATOM	2632	0	VAL C	175	7	4.071	-7.361	21.522	1.00	7.35
ATOM	2633	CB	VAL C			5.283		19.338	1.00	
ATOM	2634	CG1					-10.142	21.242	1.00	3.93
ATOM	2635		VAL C			5.453		18.802	1.00	2.00
MOTA	2636	N	THR C			2.441		21.533	1.00	18.26
MOTA	2637	CA	THR C	176	7	1.959	-8.527	22.837	1.00	19.58
MOTA	2638	С	THR C			2.179		23.689		19.27
	~	-			•		2.017		1.00	

							02 170	1.00 18.40
MOTA	2639	0	THR C	176	72.233		23.178	1.00 16.46
ATOM	2640	СВ	THR C	176	70.485	-8.071	22.766	
ATOM	2641	OG1	THR C	176	69.758	-8.611	23.875	1.00 16.62
ATOM	2642	CG2	THR C	176	69.869	-8.508	21.447	1.00 11.43
ATOM	2643	N	PHE C	177	72.390	-9.616	24.974	1.00 15.01
	2644	CA	PHE C	177	72.630	-10.720	25.854	1.00 13.07
MOTA		C	PHE C	177		-10.363	27.196	1.00 16.76
MOTA	2645		PHE C	177	71.684	-9.196	27.469	1.00 22.42
ATOM	2646	0	PHE C	177		-10.979	25.967	1.00 11.21
MOTA	2647	CB			74.152	-9.815	26.551	1.00 2.79
MOTA	2648	CG	PHE C		75.138	-8.650	25.821	1.00 2.00
MOTA	2649	CD1	PHE C				27.861	1.00 2.87
MOTA	2650		PHE C		75.465	-9.870	26.377	1.00 2.00
MOTA	2651		PHE C		75.816	-7.540		1.00 2.00
MOTA	2652	CE2	PHE C	177	76.149	-8.750	28.425	1.00 2.00
MOTA	2653	CZ	PHE C		76.319	-7.586	27.677	
MOTA:	2654	N	CYS C			-11.355	28.059	1.00 16.24
MOTA	2655	CA	CYS C	178		-11.155	29.357	1.00 15.81
ATOM	2656	С	CYS C	178		-11.725	30.400	1.00 15.30
ATOM	2657	0	CYS C	178		-12.899	30.344	1.00 15.65
ATOM	2658	СВ	CYS C		69.921	-11.893	29.404	1.00 16.20
MOTA	2659	SG	CYS C		68.780	-11.316	30.676	1.00 11.70
ATOM	2660	N	SER C			-10.938	31.389	1.00 17.85
ATOM	2661	CA	SER C			-11.479	32.390	1.00 28.04
			SER C			-10.779	33.718	1.00 34.87
MOTA	2662	С	SER C			-10.035	33.941	1.00 33.42
MOTA	2663	0	SER C			-11.299	31.943	1.00 28.34
ATOM	2664	CB			75.157	-9.910	31.778	1.00 29.66
ATOM	2665	OG	SER C		74.262	-10.985	34.588	1.00 43.85
ATOM	2666	N	ASN C				35.920	1.00 49.07
MOTA	2667	CA	ASN C			-9.753	36.324	1.00 50.45
MOTA	2668	С	ASN C		75.590		35.813	1.00 51.74
ATOM	2669	0	ASN C		76.644	-10.107		1.00 31.74
MOTA	2670	CB	ASN C				36.957	1.00 47.31
MOTA	2671	CG	ASN C			-10.824	38.181	
MOTA	2672	ODl				-10.566	39.153	1.00 50.37
ATOM	2673	ND2	ASN C			-10.565	38.147	1.00 50.42
ATOM	2674	N	ARG (: 181	75.554	-8.833	37.269	1.00 52.86
MOTA	2675	CA	ARG (: 181	76.788		37.674	1.00 56.71
ATOM	2676	С	ARG (181	77.643		38.254	1.00 60.51
ATOM	2677	0	ARG (181	78.503		37.560	1.00 57.80
ATOM	2678	CB	ARG (181	76.549		38.694	1.00 62.46
ATOM	2679	CG	ARG (181	75.993		40.064	1.00 68.65
ATOM	2680	CD	ARG (181	76.575	-6.653	41.187	1.00 74.48
ATOM	2681	NE		2 181	77.027		42.340	1.00 80.46
ATOM	2682	CZ	ARG (181	78.286	-7.831	42.548	1.00 81.63
ATOM	2683		ARG (2 181	79.243	-7.515	41.681	1.00 80.82
MOTA	2684		2 ARG		78.593		43.633	1.00 81.55
MOTA	2685	N		C 182	77.356		39.479	1.00 65.43
MOTA	2686	CA		C 182	78,172	-10.817	40.132	1.00 69.51
		C		C 182	78.113	-12.222	39.515	1.00 71.14
ATOM	2687			C 182	70.11	-12.933	39.475	1.00 69.74
MOTA	2688				77 833	-10.885	41.630	1.00 70.44
MOTA	2689			C 182	70 701	-11.863	42.444	1.00 76.59
MOTA	2690			C 182	10.123	1 -11.803	42.064	1.00 80.32
MOTA	2691			C 182	00.204	2 -12.858	41.702	1.00 79.92
MOTA	2692		1 GLU		00.794	= 10 600	42.132	1.00 73.32
MOTA	2693		2 GLU		80.776	5 -10.690	39.041	
ATOM	2694			C 183	76.934	1 -12.619	38.426	
MOTA	2695			C 183	76.75	7 -13.941		
ATOM	2696	С		C 183	78.062	2 -14.427	37.792	
MOTA	2697			C 183	78.883	3 -15.090	38.432	
MOTA	2698	СВ	ALA	C 183	75.640	6 -13.884	37.369	1.00 77.36

ATOM	2699	N	SER C	184	78.250 -14	1 000	36.522	1 00	76.64
ATOM	2700	CA	SER C		79.473 -14		35.854		77.28
ATOM	2701	C	SER C		80.427 -13				
							36.263		77.05
ATOM	2702	O	SER C		81.635 -13		36.387		76.19
MOTA	2703	CB	SER C		79.264 -14		34.340		79.03
ATOM	2704	OG	SER C		79.216 -15		33.842	1.00	79.71
ATOM	2705	N	SER C		79.848 -12	2.186	36.514	1.00	76.66
ATOM	2706	CA	SER C	: 185	80.597 -10	.996	36.913	1.00	74.99
ATOM	2707	С	SER C	: 185	81.876 -10	.864	36.116		72.15
ATOM	2708	0	SER C	: 185	81.904 -10		35.060		69.14
ATOM	2709	CB	SER C		80.916 -11		38.421		76.41
ATOM	2710	OG	SER C			3.767	39.048		
ATOM	2711	N	GLN C		82.930 -11				75.25
	2712						36.631		69.81
ATOM		CA	GLN C		84.218 -11		35.976		68.67
ATOM	2713	C	GLN C		84.434 -10		35.330		65.50
ATOM	2714	0	GLN C			029	35.946	1.00	65.05
MOTA	2715	CB	GLN C		84.281 -12		34.906	1.00	71.86
ATOM	2716	CG	GLN C		83.076 -12	2.601	33.926	1.00	71.01
ATOM	2717	CD	GLN C	186	83.430 -12	2.198	32.493	1.00	70.25
ATOM	2718	OE1	GLN C	186	84.558 -12		32.043		73.32
ATOM	2719	NE2	GLN C	186	82.458 -11		31.777		66.99
ATOM	2720	N	ALA C		84.870 -10		34.075		58.98
ATOM	2721	CA	ALA C			3.953	33.274		48.76
ATOM	2722	C	ALA C			3.720			
ATOM	2723	Ö	ALA C				32.376		40.78
ATOM	2724	СВ				.437	32.468		39.57
			ALA C			.205	32.460		53.92
ATOM	2725	N	PRO C			.730	31.480		31.97
ATOM	2726	CA	PRO C			.462	30.608		27.66
ATOM	2727	С	PRO C			1.567	29.682		24.10
ATOM	2728	0	PRO C		83.085 ~9	651	29.749	1.00	30.59
ATOM	2729	CB	PRO C	188		.213	29.861	1.00	30.67
ATOM	2730	CG	PRO C	188	84.754 -6	.237	29.874	1.00	28.85
MOTA	2731	CD	PRO C	188	85.115 -6	.782	31.207	1.00	34.32
ATOM	2732	N	PHE C	189		.283	28.847		17.99
ATOM	2733	CA	PHE C	189		.213	27.848	1.00	
ATOM	2734	С	PHE C	189		.573	26.552		15.95
ATOM	2735	0	PHE C			.584	26.116		14.56
ATOM	2736	СВ	PHE C			.305	27.882		11.72
ATOM	2737	CG	PHE C			.060	26.732	1.00	
ATOM	2738	CD1							2.00
ATOM	2739	CD2	PHE C			.458	25.513	1.00	2.00
ATOM	2740				78.562 -11		26.879	1.00	2.00
		CE1	PHE C		78.233 -10		24.474	1.00	2.00
ATOM	2741	CE2	PHE C		78.044 -12		25.840	1.00	2.00
ATOM	2742	CZ	PHE C		77.879 -11		24.639	1.00	2.00
ATOM	2743	N	ILE C			.080	25.947	1.00	10.54
MOTA	2744	CA	ILE C			.512	24.674	1.00	8.72
ATOM	2745	C	ILE C	190	82.386 -9	.443	23.534	1.00	6.62
ATOM	2746	0	ILE C	190	82.288 -10	.680	23.661	1.00	5.27
ATOM	2747	CB	ILE C	190		.107	24.619	1.00	4.99
ATOM	2748	CG1	ILE C			.035	23.710	1.00	9.86
ATOM	2749	CG2	ILE C			.133	25.995	1.00	2.00
ATOM	2750	CD1	ILE C			.792	22.228		15.61
ATOM	2751	N	ALA C			.821	22.440	1.00	4.72
ATOM	2752	CA	ALA C						
ATOM	2753	C	ALA C			.583	21.283	1.00	7.26
	2754	0				.094	20.166	1.00	7.71
ATOM			ALA C			.908	20.121	1.00	6.36
ATOM	2755	ĊВ	ALA C			.295	20.947	1.00	8.65
ATOM	2756	И	SER C			.989	19.244	1.00	8.18
ATOM	2757	CA	SER C			.643	18.146	1.00	6.91
ATOM	2758	С	SER C	192	83.329 -10	.269	16.805	1.00	7.12

ATOM	2759	0	SER C 1	92	83	.032	-11.4	179	16.730	1.00	4.50
ATOM	2760	СВ	SER C 1				-10.0		18.497	1.00	11.70
		OG		.92			-10.		19.902	1.00	
MOTA	2761		LEU C 1			.390	-9.4		15.757	1.00	4.14
ATOM	2762	N				.104	-9.1		14.385	1.00	2.48
MOTA	2763	CA	LEU C 1								7.41
ATOM	2764	С	LEU C 1				-10.2		13.847	1.00	
ATOM	2765	0	LEU C 1			.364	-9.		13.645		13.99
MOTA	2766	CB	LEU C 1			. 676			13.589	1.00	2.00
ATOM	2767	CG	LEU C 1			.976	-8.		12.274	1.00	4.52
ATOM	2768	CD1	LEU C 1	.93		.307	-7.		11.268	1.00	6.63
ATOM	2769		LEU C 1		82	.376	-10.3	240	11.791	1.00	4.77
ATOM	2770	N	CYS C 1		84	.654	-11.	584	13.614	1.00	6.26
ATOM	2771	CA	CYS C 1	94	85	.929	-12.	092	13.110	1.00	2.71
ATOM	2772	C	CYS C 1				-12.		11.662	1.00	6.97
	2773	0	CYS C 1				-12.		11.116	1.00	6.03
ATOM			CYS C 1				-13.		13.960	1.00	2.00
ATOM	2774	CB					-12.		15.578	1.00	9.89
MOTA	2775	SG	CYS C 1				-12.		11.030		11.53
ATOM	2776	N	LEU C 1								8.24
MOTA	2777	CA	LEU C 1				-12.		9.617	1.00	
MOTA	2778	С	LEU C 1				-13.		9.487	1.00	4.51
MOTA	2779	0	FER C]				-13.		10.219	1.00	2.00
ATOM	2780	CB	PER C 3	195			-11.		8.848	1.00	7.77
ATOM	2781	CG	LEU C 1	195	88	.440	-11.	639	7.670	1.00	2.00
ATOM	2782	CD1	LEU C	195	87	.605	-12.	324	6.649	1.00	2.00
ATOM	2783	CD2	LEU C 1	195	89	.005	-10.	306	7.166	1.00	2.00
MOTA	2784	N	LYS C	196	88	.010	-14.	615	8.582	1.00	9.35
ATOM	2785	CA		196			-15.		8.317	1.00	12.83
ATOM	2786	C		196			-15.		6.810		18.63
MOTA	2787	o		196			-16.		6.148		17.49
ATOM	2788	СВ	LYS C				-17.		8.878		13.43
	2789	CG	LYS C				-18.		8.728		20.39
ATOM				196			-17.		9.317		33.90
ATOM	2790	CD		196			-18.		8.605		33.88
MOTA	2791	CE					-18.		7.141		34.15
ATOM	2792	NZ		196							20.40
MOTA	2793	N		197			-15.		6.274		18.52
MOTA	2794	CA	SER C				-15.		4.833	-	
ATOM	2795	С	SER C				-16.		4.502		13.40
MOTA	2796	0	SER C				-16.		5.326	1.00	5.75
MOTA	2797	СВ	SER C				-13.		4.337		20.21
MOTA	2798	OG	SER C				-14.		3.152		31.98
MOTA	2799	N	PRO C				-16.		3.294		13.66
ATOM	2800	CA	PRO C	198			-18.		2.887		15.34
ATOM	2801	С	PRO C	198			-17.		2.922		14.93
ATOM	2802	0	PRO C	198	93	3.844	-16.	878	2.475		10.25
ATOM	2803	CB	PRO C	198	91	.297	-18.	498	1.492		14.84
ATOM	2804	CG	PRO C	198	90	0.709	-17.	144	0.992	1.00	15.55
ATOM	2805	CD	PRO C		90	0.127	7 -16.	541	2.235	1.00	11.70
ATOM	2806	N	GLY C				-18.		3.526		14.58
ATOM	2807	CA	GLY C				-18.		3.627		19.09
ATOM	2808	C	GLY C				-17.		4.528		21.58
	2809	Ö	GLY C				-17.		4.350		30.93
ATOM	2810	N	ARG C				1 -17.		5.502		18.82
ATOM			ARG C				-16.		6.408		15.19
ATOM	2811	CA							7.763		17.50
ATOM	2812	С	ARG C) -16.				14.18
MOTA	2813	0	ARG C) -17.		7.898		
ATOM	2814	СВ	ARG C				9 -14.		6.028		15.82
MOTA	2815	CG	ARG C				3 -14.		4.639		17.50
MOTA	2816	CD	ARG C				9 -14		4.496		25.07
MOTA	2817	NE	ARG C				7 -13.		3.100		36.73
MOTA	2818	CZ	ARG C	200	9.	7.55	3 -12	.762	2.680	1.00	41.27

ATOM	2819	NH1	ARG C	200	98.136	-11.955	3.576	1.00	43.06
ATOM	2820		ARG C			-12.583	1.368	1 00	42.55
ATOM	2821	N	PHE C			-16.169	8.791		19.49
ATOM	2822	CA	PHE C	201	95.249	-16.520	10.099	1.00	24.49
ATOM	2823	С	PHE C	201	93.977	-15.707	10.325	1.00	26.89
			PHE C			-14.787			
MOTA	2824	0					9.538		27.02
ATOM	2825	CB	PHE C	201	96.305	-16.150	11.119	1.00	28.00
ATOM	2826	CG	PHE C	201	97.500	-17.015	11.063	1.00	34.13
ATOM	2827		PHE C		97 680	-18.030	11.998	1 00	43.30
ATOM	2828		PHE C			-16.843	10.074		34.75
ATOM	2829	CEl	PHE C	201		-18.865	11.945	1.00	44.43
ATOM	2830	CE2	PHE C	201	99.525	-17.662	10.008	1.00	40.37
ATOM	2831	CZ	PHE C			-18.681	10.948		44.40
	2832		GLU C			-16.071	11.374		23.17
ATOM		N							
ATOM	2833	CA	GLU C	202	92.056	-15.322	11.737	1.00	20.38
ATOM	2834	С	GLU C	202	92.468	-13.886	11.977	1.00	20.39
ATOM	2835	0	GLU C	202	93,607	-13.498	11.742	1.00	26.20
ATOM	2836	CB	GLU C			-15.862	12.997		21.23
ATOM	2837	CG	GLU C	202	90.926	-17.227	12.790	1.00	30.56
ATOM	2838	CD	GLU C	202	90.449	-17.831	14.062	1.00	36.83
ATOM	2839	OE1	GLU C	202	90 771	-17.258	15.142		36.35
ATOM	2840	OE2	GLU C			-18.877	13.964		43.67
ATOM	2841	N	ARG C	203	91.539	-13.085	12.453	1.00	18.66
MOTA	2842	CA	ARG C	203	91.825	-11.685	12.673	1.00	13.53
ATOM	2843	С	ARG C		90.502	-11.067	13.120		10.64
ATOM	2844	ō	ARG C			-11.529			13.38
							12.751		
ATOM	2845	CB	ARG C			-11.079	11.352		14.07
ATOM	2846	CG	ARG C	203	92.025	-9.609	11.084	1.00	26.44
ATOM	2847	CD	ARG C	203	93.272	-8.791	10.620	1.00	31.40
ATOM	2848	NE	ARG C		93.042	-7.346	10.762		42.21
ATOM	2849	CZ	ARG C		93.202	-6.651	11.896		47.97
ATOM	2850	NH1	ARG C		93.634	-7.256	13.004	1.00	48.80
ATOM	2851	NH2	ARG C	203	92.890	-5.353	11.941	1.00	50.28
ATOM	2852	N	ILE C	204	90.584	-10.033	13.931	1.00	4.17
ATOM	2853	CA	ILE C		89.402	-9.366	14.423	1.00	2.00
MOTA	2854	С	ILE C		89.110	-8.086	13.645	1.00	2.00
MOTA	2855	0	ILE C	204	90.007	-7.303	13.378	1.00	2.78
MOTA	2856	CB	ILE C	204	89.594	-9.010	15.870	1.00	2.00
ATOM	2857	CG1	ILE C	204	89.568	-10.295	16.693	1.00	2.44
ATOM	2858	CG2	ILE C		88.565	-8.017	16.288	1.00	2.00
MOTA	2859	CD1	ILE C			-10.093	18.219	1.00	2.00
ATOM	2860	N	LEU C		87.863	-7.870	13.260	1.00	3.71
ATOM	2861	CA	LEU C	205	87.536	-6.646	12.550	1.00	4.98
ATOM	2862	С	LEU C	205	86.912		13.494		4.40
ATOM	2863	ō	LEU C		87.381	-4.482	13.550	1.00	2.00
ATOM	2864	CB	LEU C		86.617	-6.928	11.359	1.00	6.75
ATOM	2865	CG	LEU C	205	87.193	-7.847	10.266	1.00	8.61
ATOM	2866	CD1	LEU C	205	86.257	-7.929	9.057	1.00	4.80
MOTA	2867		LEU C		88.514	-7.267	9.788	1.00	8.03
ATOM	2868	N	LEU C		85.861	-5.997	14.219	1.00	6.88
ATOM	2869	CA	LEU C	206	85.215	-5.089	15.165	1.00	2.00
ATOM	2870	С	LEU C	206	84.992	-5.780	16.484	1.00	2.00
ATOM	2871	0	LEU C		85.108	-6.982	16.598	1.00	4.41
ATOM	2872	СВ	LEU C		83.840	-4.648	14.693	1.00	4.95
ATOM	2873	CG	LEU C		83.438	-3.927	13.425	1.00	2.00
ATOM	2874	CD1	LEU C	206	84.633	-3.595	12.605	1.00	5.05
ATOM	2875	CD2	LEU C	206	82.457	-4.840	12.696	1.00	2.00
MOTA	2876	N	ARG C		84.598	-5.019	17.476	1.00	2.00
ATOM	2877				84.362				5.97
		CA	ARG C			-5.583	18.784	1.00	
ATOM	2878	С	ARG C	207	83.646	-4.566	19.647	1.00	10.25

MOTA	2879	0	ARG C	207	84.037	-3.365	19.663	1.00 12.33
MOTA	2880	CB	ARG C	207	85.685	-5.909	19.454	1.00 11.05
		CG	ARG C		86.201	-7.315	19.311	1.00 10.42
MOTA	2881							1.00 17.43
ATOM	2882	CD	ARG C		87.530	-7.358	20.013	
ATOM	2883	NE	ARG C	207	87.624	-8.324	21.103	1.00 24.11
ATOM	2884	CZ	ARG C	207	88.525	-8.238	22.080	1.00 27.43
ATOM	2885			207	89.372	-7.227	22.078	1.00 31.18
					88.626	-9.170	23.030	1.00 31.45
MOTA	2886		ARG C					
ATOM	2887	N	ALA C		82.641	-5.040	20.396	
MOTA	2888	CA	ALA C	208 ·	81.881	-4.150	21.255	1.00 4.83
MOTA	2889	С	ALA C	208	81.942	-4.783	22.569	1.00 9.19
ATOM	2890	0	аца с		82.125	-5.989	22.614	1.00 14.93
	2891	СВ	ALA C		80.509	-4.085	20.811	1.00 3.40
ATOM					81.750	-4.021	23.641	1.00 13.18
MOTA	2892	N	ALA C					
MOTA	2893	CA	ALA C		81.827	-4.628	24.972	1.00 22.69
ATOM	2894	C	ALA C	209	81.148	-3.804	26.050	1.00 30.25
ATOM	2895	0	ALA C	209	81.446	-2.601	26.179	1.00 32.42
ATOM	2896	СВ	ALA C		83.290	-4.887	25.384	1.00 17.10
			ASN C		80.251	-4.450	26.824	1.00 31.90
MOTA	2897	N					27.923	1.00 26.83
ATOM	2898	. CA	ASN C		79.532	-3.788		
ATOM	2899	С	ASN C		79.865	-4.438	29.214	1.00 24.84
ATOM	2900	0	ASN C	210	80.511	-5.464	29.222	1.00 23.72
ATOM	2901	CB	ASN C	210	78.041	-3.867	27.720	1.00 26.61
ATOM	2902	CG	ASN C		77.586	-3.016	26.577	1.00 29.45
			ASN C		78.151	-3.067	25.464	1.00 28.24
MOTA	2903							1.00 29.68
MOTA	2904		ASN C		76.561	-2.217	26.826	
MOTA	2905	N	THR C		79.400	-3.849	30.302	1.00 28.79
ATOM	2906	CA	THR C	211	79.669	-4.375	31.627	1.00 32.56
ATOM	2907	С	THR C	211	78.394	-4.900	32.245	1.00 35.77
ATOM	2908	0	THR C		77.447	-4.142	32.486.	1.00 39.30
	2909	СВ	THR C		80.235	-3.299	32.544	1.00 30.50
MOTA							31.758	1.00 28.02
MOTA	2910	OG1			80.803	-2.251		
ATOM	2911	CG2			81.306	-3.893	33.429	1.00 35.75
MOTA	2912	N	HIS C	212	78.376	-6.201	32.502	1.00 37.41
MOTA	2913	CA	HIS C	212	.77.212	-6.853	33.099	1.00 41.76
ATOM	2914	С	HIS C		76.371	-5.985	34.047	1.00 42.40
ATOM	2915	Ö	HIS C		76.886	-5.326	34.954	1.00 42.38
				212	77.653	-8.139	33.806	1.00 40.90
ATOM	2916	CB						
MOTA	2917	CG	HIS C		78.323	-9.119	32.894	1.00 39.18
ATOM	2918	ND1			79.473	-9.798	33.246	1.00 39.87
ATOM	2919	CD2	HIS C	212	78.009	-9.540	31.648	1.00 36.65
MOTA	2920	CE1		212	79.828	-10.593	32.257	1.00 37.09
ATOM	2921	NE2			78.959	-10.456	31.273	1.00 32.47
ATOM	2922	N	SER C		75.065	-5.977	33.816	1.00 43.51
							34.650	1.00 44.22
MOTA	2923	CA	SER C		74.168	-5.203		
MOTA	2924	С	SER (73.889	-6.036	35.885	1.00 44.31
MOTA	2925	0	SER C	213	74.356	-7.167	35.993	1.00 44.96
MOTA	2926	CB	SER C	213	72.867	-4.927	33.905	1.00 45.96
ATOM	2927	OG		213 -	71.869	-5.847	34.298	1.00 48.77
ATOM	2928	N	SER C		73.120	-5.482	36.809	1.00 44.98
						-6.187	38.041	1.00 47.55
MOTA	2929	CA	SER (72.784			
MOTA	2930	С	SER C		71.458	-6.933	37.880	1.00 44.88
ATOM	2931	0	SER (214	71.292	-8.048	38.373	1.00 46.00
MOTA	2932	CB	SER (214	72.673	-5.190	39.204	1.00 51.42
ATOM	2933	OG	SER C		71.390	-4.577	39.232	1.00 56.16
ATOM	2934	N	ALA (70.522	-6.284	37.199	1.00 41.26
						-6.820	36.939	1.00 38.49
ATOM	2935	CA	ALA (69.193			1.00 37.76
MOTA	2936	С	ALA (69.081	-8.303	37.098	
MOTA	2937	0	ALA (69.556	-9.050	36.247	1.00 35.68
MOTA	2938	CB	ALA (215	68.753	-6.456	35.546	1.00 41.40

ATOM	2939	N	LYS C	216	68	.445	-8.727	38.182		37.85
ATOM	2940	CA	LYS C	216	68	.247	-10.144	38.416	1.00	38.98
							-10.600	37.701		37.99
MOTA	2941	С	LYS C							
ATOM	2942	0	LYS C	216	66	.037	-9.819	37.504		37.73
ATOM	2943	CB	LYS C	216	68	.153	-10.423	39.909	1.00	40.25
ATOM	2944	CG	LYS C	216	69	.483	-10.443	40.628	1.00	46.33
	2945	CD	LYS C				-11.775	40.433		52.87
ATOM										
MOTA	2946	CE	LYS C				-11.869	41.383		58.56
MOTA	2947	NZ	LYS C	216	72	.502	-12.811	40.948	1.00	62.44
ATOM	2948	N	PRO C	217	66	.940	-11.847	37.217	1.00	36.90
ATOM	2949	CA	PRO C				-12.845	37.292		36.10
MOTA	2950	С	PRO C				-12.338	36.428		35.84
MOTA	2951	0	PRO C	217	70	.357	-12.542	36.751	1.00	36.08
ATOM	2952	CB	PRO C	217	67	.374	-14.097	36.690	1.00	35.72
ATOM	2953	CG	PRO C	217	66	. 377	-13.553	35.700	1.00	38.29
ATOM	2954	CD	PRO C				-12.318	36.395		37.51
ATOM	2955	N	CYS C				-11.695	35.316		30.57
ATOM	2956	CA	CYS C	218	69	.743	-11.143	34.366	1.00	23.95
ATOM	2957	С	CYS C	218	69	.123	-9.949	33.707	1.00	18.98
ATOM	2958	0	CYS C			.928	-9.888	33.574	1.00	17.50
							-12.192	33.311		24.34
ATOM	2959	CB	CYS C			.111				
ATOM	2960	SG	CYS C			.843	-12.752	32.130		17.79
ATOM	2961	N	GLY C	219	69	.954	-9.000	33.303	1.00	20.15
ATOM	2962	CA	GLY C	219	69	.471	-7.801	32.646	1.00	20.05
ATOM	2963	C	GLY C			.000	-7.804	31.226		19.56
							-7.945			28.71
MOTA	2964	0	GLY C			.185		30.994		
ATOM	2965	N	GLN C			.129	-7.659	30.254	1.00	
ATOM	2966	CA	GLN C	220	69	.581	-7.687	28.896	1.00	10.95
ATOM	2967	С	GLN C	220	70	.333	-6.427	28.599	1.00	12.18
ATOM	2968	ō	GLN C			.167	-5.443	29.304	1.00	
MOTA	2969	CB	GLN C			.379	-7.784	27.993	1.00	
MOTA	2970	CG	GLN C	220	67	.859	-9.199	27.780	1.00	8.47
ATOM	2971	CD	GLN C	220	66	.592	-9.125	26.989	1.00	20.87
ATOM	2972	OE1	GLN C	220	65	.612	-8.521	27.465	1.00	29.24
ATOM	2973	NE2	GLN C			.594	-9.671	25.756	1.00	
						.120		27.529	1.00	
MOTA	2974	N	GLN C				-6.460			
ATOM	2975	CA		221		890	-5.311	27.056	1.00	
ATOM	2976	С	GLN C	221	72	.164	-5.599	25.580	1.00	15.58
MOTA	2977	0	GLN C	221	72	.417	-6.743	25.213	1.00	15.21
ATOM	2978	CB		221		.197	-5.200	27.789	1.00	
							-4.469	29.043		17.76
MOTA	2979	CG	GLN C			1.124				
MOTA	2980	CD	GLN C			.478	-3.926	29.404	1.00	
MOTA	2981	OE1	GLN C	221	74	.705	-2.714	29.277	1.00	44.59
ATOM	2982	NE2	GLN C	221	75	.414	-4.817	29.813	1.00	33.61
MOTA	2983	N	SER C		72	.095	-4.599	24.709	1.00	14.60
ATOM	2984	CA	SER C			2.357		23.310		14.76
ATOM	2985	С	SER C			3.728		22.816		16.81
MOTA	2986	0	SER C	222	74	.351	-3.531	23.433	1.00	17.77
ATOM	2987	CB	SER C	222	71	.216	-4.354	22.460	1.00	15.73
MOTA	2988	OG	SER C			.221		22.271	1.00	20.79
ATOM	2989	N	ILE C			1.173		21.682		15.61
MOTA	2990	CA	ILE C			.460		21.091	1.00	8.09
MOTA	2991	С	ILE C		75	.313		19.574		11.68
ATOM	2992	0	ILE C	223	74	1.605	-5.380	18.962	1.00	11.53
ATOM	2993	CB	ILE C			5.447	-5.669	21.464	1.00	6.59
	2994	CG1	ILE C			7.344		22.577	1.00	11.15
ATOM										
MOTA	2995	CG2	ILE C			1.179		20.264	1.00	2.67
MOTA	2996	CD1	ILE C			3.274		23.118		18.11
ATOM	2997	N	HIS C	224	76	5.007	-3.617	18.947	1.00	14.06
ATOM	2998	CA	HIS C	224		.893		17.489	1.00	14.88
		-							•	_

MOTA	2999	С	HIS C	224	77	.182	-3.129	16.736	1.00	13.69
	3000		HIS C		77	.813	-2.098	17.005	1.00	14.51
MOTA		0								
MOTA	3001	CB	HIS C	224	74	.835	-2.406	17.167	1.00	12.41
ATOM	3002	CG	HIS C		74	.436	-2.345	15.721	1.00	18.23
MOTA	3003	NDl	HIS C	224	73	.257	-2.892	15.248		20.89
ATOM	3004	CD2	HIS C	224	75	.079	-1.846	14.632	1.00	17.92
							-2.745	13.936	7 00	21.91
MOTA	3005		HIS C			.200				
ATOM	3006	NE2	HIS C	224	74	.291	-2.116	13.539	1.00	17.17
ATOM	3007	N	LEU C		77	.558	-3.935	15.752	1.00	8.05
										10.41
MOTA	3008	CA		225		.759	-3.570	15.020		
ATOM	3009	C	LEU C	225	78	.741	-3.752	13.524	1.00	7.52
ATOM	3010	0	LEU C		78	.472	-4.837	13.041	1.00	6.38
ATOM	3011	CB	LEU C	225	79	.970	-4.287	15.583	1.00	7.66
ATOM	3012	CG	LEU C	225	79	.661	-5.409	16.516	1.00	2.00
ATOM	3013	CD1			R ∩	.079	-6.667	15.800	1.00	3.41
ATOM	3014	CD2	LEU C	225		.385	-5.217	17.789	1.00	2.00
ATOM	3015	N	GLY C	226	79	.030	-2.667	12.803	1.00	9.84
			GLY C			.087	-2.699	11.347	1 00	11.12
MOTA	3016	CA								
ATOM	3017	С	GLY C	226	80	.487	-2.294	10.873	1.00	11.36
ATOM	3018	0	GLY C	226	81	.467	-2.545	11.557	1.00	14.38
						.589	-1.651	9.720		10.96
ATOM	3019	И	CTA C							
ATOM	3020	CA	GLY C	227	81	.891	-1.262	9.201	1.00	8.13
ATOM	3021	С	GLY C	227	82	.109	-1.867	7.809	1.00	9.12
								7.576	1.00	4.56
ATOM	3022	0	GLY C			.813	-3.052			
ATOM	3023	N	VAL C	228	82	.591	-1.054	6.868	1.00	6.14
ATOM	3024	CA	VAL C	228	82	.847	-1.544	5.525	1.00	9.49
			VAL C				-2.187	5.405		10.61
ATOM	3025	С				.223				
ATOM	3026	0	VAL C	228	85	.215	-1.671	5.889	1.00	14.54
MOTA	3027	CB	VAL C		82	.828	-0.461	4.488	1.00	9.91
							-1.043	3.184	1.00	9.96
ATOM	3028	CG1				.341				
ATOM	3029	CG2	VAL C	228	81	.444	0.037	4.281	1.00	19.51
ATOM	3030	N	PHE C	229	8.4	.287	-3.313	4.740	1.00	8.67
								4.581	1.00	8.03
ATOM	3031	CA	PHE C			.542	-3.983			
ATOM	3032	С	PHE C	229	85	6.677	-4.535	3.179	1.00	13.19
ATOM	3033	0	PHE C	229	8.4	.726	-4.607	2.401	1.00	17.14
						.633	-5.124	5.565	1.00	2.00
ATOM	3034	CB	PHE C							
ATOM	3035	CG	PHE C	229	85	5.512	-4.700	6.971	1.00	2.04
ATOM	3036	CD1	PHE C	229	86	6.617	-4.305	7.667	1.00	10.63
						1.307	-4.717	7.619		10.74
ATOM	3037	CD2								
MOTA	3038	CE1	PHE C	229	86	5.547	-3.931	8.994	1.00	12.44
ATOM	3039	CE2	PHE C	229	84	.223	-4.336	8.968	1.00	14.55
		CZ	PHE C			366	-3.942	9.647	1.00	9.86
ATOM	3040									
MOTA	3041	N	GLU C		86	.895	-4.893	2.837	1.00	17.56
ATOM	3042	CA	GLU C	230	87	.146	-5.484	1.541	1.00	16.60
			GLU C			.461	-6.947	1.844		13.72
ATOM	3043	С								
MOTA	3044	0	GLU C	230	88	3.332	-7.236	2.672	1.00	3.37
ATOM	3045	CB	GLU C	230	88	3.336	-4.805	0.886	1.00	18.37
			GLU C				-5.264	-0.515		25.31
MOTA	3046	CG				3.613				
ATOM	3047	CD	GLU C	230	88	3.985	-4.109	-1.406	1.00	34.09
ATOM	3048	OE1	GLU C	230	88	3.779	-4.237	-2.636	1.00	36.25
								-0.870		35.41
MOTA	3049	OE2				9.477	-3.079			
MOTA	3050	N	LEU C	231	86	5.721	-7.858	1.214	1.00	9.04
ATOM	3051	CA	LEU C		8.6	5.937	-9.260	1.429	1.00	10.52
								0.220		13.04
ATOM	3052	С	LEU C			7.576	-9.959			
MOTA	3053	0	LEU C	231	81	7.236	-9.708	-0.951	1.00	12.76
ATOM	3054	СВ	LEU C		A t	5.607	-9.903	1.811	1.00	9.53
ATOM	3055	CG	TEA C			1.953	-9.267	3.051		13.23
ATOM	3056	CD1	LEU C	231	8:	3.665	-9.968	3.441	1.00	11.29
ATOM	3057	CD2	LEU C			5.907	-9.362	4.213	1.00	9.66
								0.514		12.15
ATOM	3058	N	GLN C	232	81	5.504	-10.860	0.514	1.00	12.13

ATOM	3059	CA	GLN C 23	32	89.181	-11.576	-0.539	1.00	9.96
ATOM	3060	С	GLN C 23		88.258	-12.675	-0.955	1.00	8.71
ATOM	3061	0	GLN C 23		87.524	-13.204	-0.128	1.00	
ATOM	3062	СВ	GLN C 23	32	90.466	-12.154	0.017		19.63
ATOM	3063	CG	GLN C 23		91.641	-11.204	-0.132	1.00	
ATOM	3064	CD	GLN C 23			-10.747	-1.578	1.00	
ATOM	3065	OE1	GLN C 23			-11.541	-2.446	1.00	40.71
	3066		GLN C 23		91.557		-1.847	1.00	36.48
ATOM	3067	N	PRO C 23			-13.085	-2.217	1.00	6.52
MOTA	3068	CA	PRO C 23			-14.156	-2.528	1.00	11.05
MOTA	3069	C	PRO C 23			-15.393	-1.684	1.00	12.77
MOTA	3070	0	PRO C 23			-15.814	-1.574	1.00	18.70
MOTA	3070	СВ	PRO C 23			-14.373	-4.021	1.00	2.42
ATOM		CG	PRO C 23			-13.990	-4.237	1.00	9.86
ATOM	3072	CD	PRO C 23			-12.774	-3.388	1.00	9.90
ATOM	3073		GLY C 2			-15.930	-1.058		13.11
ATOM	3074	N	GLY C 2			-17.113	-0.236		13.57
MOTA	3075	CA				-16.709	1.203		16.71
ATOM	3076	C	GLY C 2			-17.567	2.106	1.00	18.99
MOTA	3077	0	GLY C 2			-15.391	1.398	1.00	
MOTA	3078	N	ALA C 2			-13.331 -14.792	2.734		18.25
MOTA	3079	CA	ALA C 2			-15.312	3.540		14.98
ATOM	3080	С	ALA C 2			-15.748	2.985		15.33
ATOM	3081	0	ALA C 2			-13.740	2.622		22.59
MOTA	3082	CB	ALA C 2			-15.273	4.854	1.00	9.86
ATOM	3083	N	SER C 2			-15.273	5.666	1.00	6.97
ATOM	3084	CA	SER C 2) -15.139	7.090	1.00	6.38
MOTA	3085	С	SER C 2			5 -15.247	7.834	1.00	6.86
MOTA	3086	0	SER C 2			7 -17.238	5.709	1.00	3.13
MOTA	3087	CB	SER C 2			1 -17.236	7.030	1.00	3.10
MOTA	3088	OG	SER C 2				7.508	1.00	8.63
MOTA	3089	N	VAL C 2			3 -14.602		1.00	6.18
MOTA	3090	CA	VAL C 2) -14.020 1 -14.768		1.00	3.01
MOTA	3091	С	VAL C 2			9 -15.606		1.00	2.00
ATOM	3092	0	VAL C 2			7 - 12.651		1.00	2.20
ATOM	3093	CB	VAL C 2			7 -12.031 7 -11.903		1.00	5.00
ATOM	3094	CG1				7 -11.903 9 -12.631	7.828	1.00	4.50
MOTA	3095	CG2				8 - 14.517		1.00	2.00
ATOM	3096	N	PHE C 2			0 - 14.317 0 - 15.142		1.00	4.76
ATOM	3097	CA	PHE C 2			6 -14.315		1.00	5.67
MOTA	3098	С	PHE C 2			5 -13.678		1.00	4.19
MOTA	3099	0	PHE C 2	238 238		8 -16.493		1.00	5.59
MOTA	3100	CB	PHE C 2			7 -16.408		1.00	
MOTA	3101	CG				8 -16.233			14.33
MOTA	3102	CD1		230		2 -16.518			11.40
MOTA	3103	CDZ	PHE C 2	230		0 - 16.171		1.00	13.82
MOTA	3104		PHE C 2			5 -16.457		1.00	
MOTA	3105		PHE C 2			6 -16.284		1.00	
MOTA	3106	CZ	PHE C 2			3 -14.314		1.00	
MOTA	3107	N	VAL C			7 -13.522			10.74
ATOM	3108	CA	VAL C 2		01 12	9 -14.364	16.609	1.00	
MOTA	3109	С	VAL C 2			4 -15.524		1.00	
ATOM	3110	0				8 -13.042			
ATOM	3111	CB	VAL C			8 -12.166			
ATOM	3112		1 VAL C			2 -12.30			
MOTA	3113		2 VAL C			6 -13.78			
ATOM	3114	N	ASN C			$\frac{16}{5} - 14.592$			
ATOM	3115	CA				66 -13.786			
MOTA	3116	C	ASN C			66 -13.760 10 -12.58			12.01
MOTA	3117	0	ASN C			30 -12.36. 32 -14.85			18.58
MOTA	3118	CB	ASN C	24U	03.03	2 -14.05	, TO.224		, 10.50

ATOM	3119	CG	ASN C	240	84.471	-15.659	19.445	1.00 25.23
ATOM	3120	OD1	ASN C	240	83.776	-16.312	20.214	1.00 30.74
ATOM	3121	ND2	ASN C	240	85.807	-15.619	19.530	1.00 29.88
ATOM	3122	N	VAL C		81.728	-14.411	20.925	1.00 6.24
ATOM	3123	CA	VAL C		81.541	-13.659	22.150	1.00 5.59
ATOM	3124	С	VAL C			-14.414	23.312	1.00 6.01
ATOM	3125	0	VAL C	-	82,483	-15.625	23.212	1.00 2.00
ATOM	3126	СВ	VAL C			-13.383	22.471	1.00 4.25
ATOM	3127		VAL C			-13.108	21.200	1.00 2.98
ATOM	3128		VAL C			-14.577	23.166	1.00 10.34
MOTA	3129	N	THR C			-13.679	24.424	1.00 2.00
ATOM	3130	CA	THR C			-14.184	25.608	1.00 3.55
ATOM	3131	C	THR C			-15.288	26.280	1.00 7.90
ATOM	3132	Ö	THR C			-16.265	26.715	1.00 14.28
ATOM	3133	СВ	THR C			-13.092	26.555	1.00 2.71
ATOM	3134	OG1				-13.372	27.761	1.00 15.77
ATOM	3135		THR C			-11.758	25.961	1.00 2.00
ATOM	3136	N	ASP C			-15.184	26.339	1.00 9.09
ATOM	3137	CA	ASP C			-16.261	26.930	1.00 8.83
ATOM	3138	C	ASP C			-16.448	26.175	1.00 7.16
ATOM	3139	0	ASP C			-15.874	26.515	1.00 14.70
ATOM	3140	СВ	ASP C			-15.975	28.402	1.00 14.07
ATOM	3141	CG	ASP C			-17.083	29.028	1.00 19.81
ATOM	3142		ASP C			-16.961	30.239	1.00 23.23
	3142	OD2				-18.061	28.311	1.00 20.85
ATOM ATOM	3143	N	PRO C			-17.284	25.160	1.00 20.03
	3144	CA	PRO C			-17.464	24.421	1.00 7.05
MOTA	3145	CA	PRO C			-17.998	25.318	1.00 8.25
ATOM	3146	0	PRO C			-17.740	25.071	1.00 0.25
MOTA	3148		PRO C			-18.424	23.291	1.00 3.20
MOTA		CB CG	PRO C			-19.133	23.771	1.00 4.20
ATOM ATOM	3149 3150	CD	PRO C			-18.141	24.657	1.00 9.06
ATOM	3151	N	SER C			-18.707	26.382	1.00 9.06
ATOM	3152	CA	SER C			-19.252	27.292	1.00 9.55
	3153	CA	SER C			-18.124	27.742	1.00 8.70
ATOM	3154	0	SER C			-18.317	28.602	1.00 12.69
ATOM ATOM	3155	CB	SER C			-19.831	28.536	1.00 12.03
ATOM	3156	OG	SER C			-18.817	29.535	1.00 26.26
ATOM	3157	И	GLN C			-16.916	27.243	1.00 20.28
ATOM	3158	CA	GLN C			-15.868	27.668	1.00 7.62
ATOM	3159	C	GLN C			-14.771	26.682	1.00 7.02
ATOM	3160	0	GLN C			-13.654	27.043	1.00 2.00
ATOM	3161	СВ	GLN C			-15.293	28.982	1.00 8.40
ATOM	3162	CG	GLN C			-14.539	28.899	1.00 11.22
ATOM	3163	CD	GLN C			-14.571	30.217	1.00 21.64
ATOM	3164	OE1				-13.793	30.461	1.00 26.75
ATOM	3165	NE2				-15.480	31.099	1.00 25.30
ATOM	3166	N	VAL C			-15.064	25.415	1.00 4.05
ATOM	3167	CA	VAL C			-14.059	24.470	1.00 8.39
ATOM	3168	C	VAL C			-14.349	24.469	1.00 9.19
ATOM	3169	0	VAL C			-15.463	24.409	1.00 5.28
ATOM	3170	CB	VAL C			-14.304	23.059	1.00 11.66
ATOM	3170	CG1				-14.304	23.149	1.00 11.00
ATOM	3172		VAL C			-14.626	23.143	1.00 8.26
	3173	N N	SER C			-13.361	24.085	1.00 8.20
ATOM ATOM	3173	CA	SER C			-13.508	24.033	1.00 10.16
ATOM	3175	C	SER C			-13.934	22.651	1.00 10.10
ATOM	3176	0	SER C			-13.349	21.686	1.00 11.34
ATOM	3177	CB	SER C			-13.349	24.322	1.00 19.01
ATOM	3178	OG	SER C			-11.964	25.720	1.00 10.33
A1 011	J 1 1 0	J.G	JUK (. 240	00.700	±4.504	23.720	1.00 17.10

ATOM	3179	N	HIS C 249		-14.879	22.563	1.00	
MOTA	3180	CA	HIS C 249		-15.377	21.272	1.00	8.77
MOTA	3181	С	HIS C 249		-15.076	20.992	1.00	8.44
ATOM	3182	0	HIS C 249		-15.639	20.073	1.00	8.96
MOTA	3183	CB	HIS C 249		-16.874	21.181	1.00	
ATOM	3184	CG	HIS C 249		-17.334	21.107		10.87
MOTA	3185	ND1	HIS C 249		-17.385	19.927	1.00	9.01
MOTA	3186	CD2	HIS C 249		-17.863	22.054		10.81
MOTA	3187		HIS C 249		-17.935	20.142		11.16 12.78
MOTA	3188		HIS C 249		-18.225	21.428	1.00	5.82
MOTA	3189	N	GLY C 250		-14.299	21.854 21.586	1.00	8.15
MOTA	3190	CA	GLY C 250		-13.932	20.203	1.00	4.67
MOTA	3191	С	GLY C 250		-13.350 -12.671	19.774	1.00	5.79
MOTA	3192	0	GLY C 250		-13.566	19.526	1.00	4.32
MOTA	3193	N	THR C 251		-13.366	18.179	1.00	4.76
MOTA	3194	CA	THR C 251		-11.631	18.075	1.00	2.00
MOTA	3195	С	THR C 251		-11.631 -10.844	18.947	1.00	2.00
MOTA	3196	0	THR C 251		-13.224	17.590	1.00	5.23
MOTA	3197	CB	THR C 251		-11.970	17.062	1.00	3.38
MOTA	3198	OG1			-13.740	18.600	1.00	9.24
ATOM	3199	CG2			-11.352	17.017	1.00	2.00
ATOM	3200	N	GLY C 252 GLY C 252		-10.020	16.729	1.00	8.33
ATOM	3201	CA	GLY C 252	65.802	-9.491	17.516		14.46
MOTA	3202	C	GLY C 252	66.280	~8.377	17.242		13.51
ATOM	3203	0	PHE C 253		-10.255	18.504		14.94
MOTA	3204	N CA	PHE C 253	67.370	-9.810	19.332		14.58
ATOM	3205 3206	CA	PHE C 253	68.791	-9.896	18.728		16.62
MOTA	3200	0	PHE C 253	69.453	-8.872	18.535	1.00	
ATOM ATOM	3207	CB	PHE C 253		-10.547	20.678	1.00	
ATOM	3209	CG	PHE C 253	66.401	-9.896	21.694		16.09
ATOM	3210		PHE C 253	66.566	-8.562	22.072	1.00	20.98
MOTA	3211	CD2			-10.615	22.297	1.00	15.84
ATOM	3212	CE1		65.741	-7.964	23.045	1.00	18.03
ATOM	3213	CE2			-10.020	23.254	1.00	15.86
ATOM	3214	CZ	PHE C 253	64.769	-8.692	23.623	1.00	14.46
ATOM	3215	N	THR C 254	69.256	-11.108	18.449	1.00	12.35
ATOM	3216	CA	THR C 254	70.586	-11.310	17.919	1.00	5.69
ATOM	3217	С	THR C 254	70.591	-11.744	16.456	1.00	9.55
ATOM	3218	0	THR C 254	70.073	-12.804	16.101	1.00	11.08
ATOM	3219	CB	THR C 254	71.304	-12.361	18.765	1.00	3.00
ATOM	3220	OG]	THR C 254		-11.859	20.093	1.00	4.27
ATOM	3221	CG2	THR C 254		-12.691	18.185	1.00	9.80
ATOM	3222	N			-10.929	15.607		10.65
MOTA	3223	CA	SER C 255		-11.229	14.182	1.00	9.64
MOTA	3224	С	SER C 255		-10.967	13.757		11.78
MOTA	3225	0	SER C 255		-10.390	14.532		12.31
ATOM	3226	CB	SER C 255		-10.319	13.370	1.00	9.31
MOTA	3227	OG	SER C 255	70.031		14.120		18.79
MOTA	3228	.N	PHE C 256		-11.316	12.496	1.00	
ATOM	3229	CA	PHE C 256		-11.204	11.874	1.00	8.74
MOTA	3230	С	PHE C 256		-11.198	10.362	1.00	8.72
ATOM	3231	0	PHE C 256		-11.960	9.849	1.00	7.27
MOTA	3232	CB	PHE C 256		-12.440	12.327	1.00	
ATOM	3233		PHE C 256		-12.688	11.634	1.00	_
MOTA	3234		1 PHE C 256		-11.655	11.334	1.00	
ATOM	3235				3 -14.006	11.382	1.00	
ATOM	3236				-11.945		1.00	
ATOM	3237				-14.289		1.00	
MOTA	3238	CZ	PHE C 256	/8.8/4	-13.263	10.566	1.00	0.50

MOTA	3239	N	GLY C	257			-10.374	9.647	1.00	
MOTA	3240	CA	GLY C				-10.278	8.198	1.00	9.92
MOTA	3241	С	GLY C			646	-9.306	7.452	1.00	3.47
MOTA	3242	0	GLY C			349	-8.475	8.053	1.00	2.00
ATOM	3243	N	LEU C			612	-9.414	6.130	1.00	2.00 2.37
ATOM	3244	CA	LEU C			449	-8.606	5.258 3.908	1.00	3.92
ATOM	3245	С	LEU C			870 226	-8.352 -9.201	3.279	1.00	8.01
ATOM	3246	0	LEU C			792	-9.288	5.013	1.00	2.00
ATOM ATOM	3247 3248	CB CG	LEU C				-10.722	4.491	1.00	2.00
ATOM	3249		PEA C				-10.753	3.036	1.00	2.10
ATOM	3250		LEU C				-11.489	4.948	1.00	2.00
ATOM	3251	N	LEU C			183	-7.189	3.400	1.00	3.90
ATOM	3252	CA		259	75.	692	-6.872	2.093	1.00	9.13
ATOM	3253	С	LEU C	259		880	-6.305	1.267	1.00	10.00
ATOM	3254	0	LEU C	259	77.	744	-5.569	1.758	1.00	12.61
ATOM	3255	CB	LEU C	259	74.	509	-5.888	2.217	1.00	2.68
ATOM	3256	CG	LEU C			112	-4.645	2.815	1.00	5.17
MOTA	3257	CD1				237	-3.662	1.651		14.17
MOTA	3258	CD2				331	-4.099	3.966	1.00	2.00
MOTA	3259	N	LYS C			929	-6.662	0.003	1.00	6.34
MOTA	3260	CA	LYS C			995	-6.190	-0.852	1.00	7.55 5.22
ATOM	3261	C	LYS C			576	-4.934 -4.871	-1.635 -2.133	1.00 1.00	7.20
MOTA	3262	0	LYS C			474 355	-7.343	-2.133		10.78
ATOM ATOM	3263 3264	CB CG	LYS C			301	-7.048	-2.915	1.00	7.74
ATOM	3265	CD	LYS C			855	-8.336	-3.440		10.64
MOTA	3266	CE	LYS C			871	-7.993	-4.487		20.59
ATOM	3267	NZ	LYS C			259	-7.124	-5.523		22.32
ATOM	3268	N	LEU C			468	-3.956	-1.775	1.00	4.79
ATOM	3269	CA	LEU C		78.	.191	-2.723	-2.526	1.00	5.93
ATOM	3270	С	LEU C	261	78.	457	-2.868	-4.032		14.20
ATOM	3271	0	LEU C			441	-3.592	-4.397		18.47
ATOM	3272	CB	LEU C			.074	-1.619	-2.021	1.00	3.86
MOTA	3273	CG	LEU C			. 605	-1.941	-0.638		14.16
ATOM	3274	CD1	LEU C			.273		-0.022		15.90
ATOM	3275	CD2	LEU C			.419		0.239		24.94 16.25
MOTA	3276 3277	ОT И	LEU C	261		. 692 . 685	-2.251 24.169	-4.836 32.403		50.34
ATOM ATOM	3277	CA	GLN H	1		. 540		31.652		49.37
ATOM	3279	C	GLN H			.999		31.816		44.44
ATOM	3280	Ö	GLN H	ī		.433		32.934		49.26
ATOM	3281	СВ	GLN H			.338		32.200		55.18
ATOM	3282	CG	GLN H			.043		33.021		65.37
MOTA	3283	CD	GLN H	1	39	.261	28.074	32.631		70.84
ATOM	3284	OE1		1	38	.778		33.500		74.05
MOTA	3285	NE2				.129		31.327		71.79
ATOM	3286	N	VAL H			.754		30.724		34.32
ATOM	3287	CA	VAL H			.176		30.817		25.29
ATOM	3288	C	VAL H			.986		31.176		19.80
MOTA	3289	0	VAL H			.068		30.376 29.468		19.78 25.06
MOTA	3290	CB CC1	VAL H			.706 .099		28.309		26.68
ATOM ATOM	3291 3292		VAL H			.099 .208		29.425		14.66
ATOM	3293	N N	GLN H			. 573		32.363		14.41
MOTA	3294	CA	GLN H			. 344		32.696		14.34
ATOM	3295	C	GLN H			.700		33.376		15.23
ATOM	3296	0	GLN H			.947		33.994		15.06
MOTA	3297	СВ	GLN H	3	46	.491		33.516		16.82
MOTA	3298	CG	GLN H		46	.105	27.307	34.914	1.00	32.57

ATOM	3299	CD	GLN	Н	3	45.545	28.422	35.814	1.00	38.63
ATOM	3300	OE1	GLN		3	45.421	29.580	35.386	1.00	
ATOM	3301	NE2	GLN		3	45.211	28.067	37.075		42.38
ATOM	3302	N	LEU	Η	4	49.588	27.550	33.189	1.00	13.45
ATOM	3303	CA	LEU	н	4	50.955	27.545	33.720	1.00	
					4					
ATOM	3304	С	LEU			51.172	28.794	34.561		14.31
ATOM	3305	0	LEU	Н	4	51.158	29.927	34.047	1.00	13.85
ATOM	3306	CB	LEU	H	4	51.988	27.584	32.587	1.00	11.34
ATOM	3307	CG	LEU		4	52.130	26.499	31.519	1.00	8.91
ATOM	3308	CD1	LEU		4	53.424	26.704	30.872	1.00	4.04
MOTA	3309	CD2	LEU	H	4	52.042	25.105	32.080	1.00	5.97
MOTA	3310	И	VAL	Н	5	51.405	28.606	35.848	1.00	13.53
MOTA	3311	CA	VAL		5	51.586	29.774	36.684	1.00	
ATOM	3312	С	VAL		5	52.997	29.998	37.184	1.00	15.39
MOTA	3313	0	VAL	Н	5	53.472	29.309	38.077	1.00	20.90
ATOM	3314	CB	VAL	Н	5	50.646	29.709	37.887	1.00	14.57
ATOM	3315	CG1	VAL		5	50.681	31.036	38.632	1.00	2.00
ATOM	3316	CG2	VAL		5	49.225	29.254	37.436	1.00	14.90
ATOM	3317	N	GLN	H	6	53.676	30.942	36.556	1.00	15.29
ATOM	3318	CA	GLN	H	6	55.037	31.299	36.925	1.00	14.28
ATOM	3319	С	GLN		6	55.069	31.970	38.245	1.00	
MOTA	3320	0	GLN		6	54.046	32.435	38.725	1.00	14.04
MOTA	3321	CB	${\tt GLN}$	Н	6	55.661	32.265	35.919	1.00	20.68
ATOM	3322	CG	GLN	Н	6	56.948	31.757	35.256	1.00	27.42
MOTA	3323	CD	GLN		6	56.957	31.906	33.727	1.00	
ATOM	3324	OE1		_	6					
			GLN			55.919	31.934	33.055		26.30
ATOM	3325	NE2	GLN		6	58.149	31.993	33.177	1.00	31.79
MOTA	3326	N	SER	H	7	56.287	32.057	38.779	1.00	12.79
ATOM	3327	CA	SER	Н	7	56.607	32.645	40.074		11.58
ATOM	3328	C	SER		7	56.742	34.130			
								40.117	1.00	8.88
ATOM	3329	0	SER		7	56.735	34.819	39.096	1.00	6.23
MOTA	3330	CB	SER	H	7	57.913	32.067	40.612	1.00	15.74
ATOM	3331	OG	SER	Н	7	58.985	32.957	40.319	1.00	22.92
ATOM	3332	N	GLY		8	56.884	34.623	41.338		
	3333								1.00	9.73
ATOM		CA	GLY		8	57.000	36.057	41.519		14.46
ATOM	3334	С	GLY	Н	8	58.215	36.700	40.928	1.00	10.63
ATOM	3335	0	GLY	Н	8	59.205	36.009	40.778	1.00	13.22
ATOM	3336	N	ALA	н	9	58.142	38.001	40.626		12.64
MOTA	3337	CA	ALA		9	59.274	38.760			
								40.063		17.88
ATOM	3338	С	ALA		9	60.436	38.704	41.037		19.00
MOTA	3339	0	ALA	Н	9	60.209	38.531	42.235	1.00	19.47
ATOM	3340	CB	ALA	Н	9	58.886	40.190	39.821		18.30
MOTA	3341	N	GLU	н	10	61.662	38.828	40.523		22.22
ATOM	3342	CA	GLU							
					10	62.861	38.741	41.357		31.14
ATOM	3343	С	GLU		10	63.838	39.863	41.036	1.00	32.14
ATOM	3344	0	${ t GLU}$	Н	10	64.053	40.179	39.867	1.00	31.74
MOTA	3345	CB	GLU		10	63.564	37.368	41.168		31.39
ATOM	3346	CG	GLU		10	63.512				
							36.421	42.381		38.69
MOTA	3347	CD	GLU		10	62.394	35.383	42.261	1.00	50.33
MOTA	3348	OE1	GLU	Н	10	62.052	35.012	41.116	1.00	50.53
ATOM	3349	OE2	GLU	H	10	61.842	34.936	43.303		59.01
ATOM	3350	N	VAL		11	64.372		42.081		
							40.496			34.74
MOTA	3351	CA	VAL		11	65.374	41.556	41.919		33.27
MOTA	3352	С	VAL	H	11	66.598	40.989	42.616	1.00	36.28
ATOM	3353	0	VAL	H	11	66.549	40.634	43.802		39.78
ATOM	3354	CB	VAL		11	64.995	42.875	42.625		29.06
ATOM	3355		VAL							
					11	65.507	44.039	41.828		23.63
MOTA	3356		VAL		11	63.480	42.978	42.814		31.92
MOTA	3357	N	VAL	H	12	67.688	40.882	41.870	1.00	37.01
ATOM	3358	CA	VAL	Н	12	68.918	40.325	42.407		36.90
						, .	10.020		1.00	50.50

ATOM	3359	С	VAL H	12	70.201	41.015	41.941	1.00 37.50
							40.794	1.00 35.94
ATOM	3360	0	VAL H		70.321	41.478	40.794	
MOTA	3361	CB	VAL H	12	69.048	38.837	42.058	1.00 37.56
					69.192			
ATOM	3362		VAL H			38.659	40.533	1.00 33.06
MOTA	3363	CG2	VAL H	12	70.242	38.256	42.783	1.00 38.73
			LYS H		71.166	41.052	42.852	_
ATOM	3364	N						
ATOM	3365	CA	LYS H	13	72.459	41.669	42.591	1.00 33.56
ATOM	3366	С	LYS H		73.214	40.762	41.670	1.00 31.74
ATOM	3367	0	LYS H	13	73.065	39.535	41.741	1.00 31.73
MOTA	3368	св `	LYS H	13	73.265	41.837	43.872	1.00 37.13
ATOM	3369	CG	LYS H	13	72.571	41.303	45.118	1.00 46.91
ATOM	3370	CD	LYS H	13	72.346	39.792	45.022	1.00 54.48
ATOM	3371	CE	LYS H	13	71.075	39.368	45.761	1.00 58.50
ATOM	3372	NZ	LYS H	13	69.960	40.372	45.653	1.00 59.84
ATOM	3373	N	PRO H		74.057	41.351	40.807	1.00 29.84
MOTA	3374	CA	PRO H	14	74.853	40.591	39.841	1.00 27.93
MOTA	3375	С	PRO H	14	75.561	39.436	40.499	1.00 28.28
ATOM	3376	0	PRO H	14	75.700	39.397	41.708	1.00 30.95
MOTA	3377	CB	PRO H	14	75.821	41.625	39.271	1.00 24.27
					75.089	42.944		
MOTA	3378	ÇG	PRO H				39.436	1.00 24.52
ATOM	3379	CD	PRO H	14	74.298	42.804	40.708	1.00 26.06
ATOM	3380	N	GLY H	15	75.983	38.476	39.700	1.00 29.98
MOTA	3381	CA	GLY H	15	76.697	37.354	40.255	1.00 31.59
ATOM	3382	С	GLY H	15	75.819	36.380	41.007	1.00 30.97
MOTA	3383	0	GLY H		76.128	35.175	41.080	1.00 33.44
MOTA	3384	N	ALA H	16	74.724	36.872	41.563	1.00 29.24
MOTA	3385	CA	ALA H	16	73.856	35.977	42.316	1.00 34.90
MOTA	3386	С	ALA H	16	73.226	34.914	41.403	1.00 36.74
MOTA	3387	0	ALA H	16	73.622	34.757	40.224	1.00 38.49
ATOM	3388	СВ	ALA H		72.764	36.778	43.062	1.00 29.80
ATOM	3389	N	SER H	17	72.266	34.175	41.953	1.00 34.58
ATOM	3390	CA	SER H	17	71.571	33.164	41.178	1.00 38.37
MOTA	3391	,C	SER H		70.118	33.125	41.637	1.00 37.92
ATOM	3392	0	SER H	17	69.816	33.357	42.814	1.00 42.42
ATOM	3393	СВ	SER H	17	72.244	31.805	41.343	1.00 41.01
MOTA	3394	OG	SER H		73.486	31.798	40.654	1.00 51.88
ATOM	3395	N	VAL H	18	69.212	32.850	40.709	1.00 31.77
ATOM	3396	CA	VAL H	18	67.813	32.818	41.051	1.00 27.16
ATOM	3397	С	VAL F	18	67.176	31.541	40.523	1.00 27.18
ATOM	3398	0	VAL E	18	67.645	30.981	39.516	1.00 31.10
ATOM	3399	CB	VAL H		67.130	34.025	40.472	1.00 26.45
ATOM	3400	CG1	VAL H	18	67.411	34.115	38.970	1.00 21.23
ATOM	3401	CG2	VAL H	18	65.658	33.956	40.808	1.00 29.31
ATOM	3402	N	LYS H	19	66.141	31.049	41.203	1.00 18.83
ATOM	3403	CA	LYS F	19	65.511	29.818	40.750	1.00 15.64
MOTA	3404	С	LYS F		64.044	29.960	40.405	1.00 13.01
ATOM	3405	0	LYS H	19	63.194	29.813	41.252	1.00 19.19
ATOM	3406	CB	LYS F	19	65.683	28.729	41.801	1.00 16.08
MOTA	_3407	CG	LYS F		65.442	27.349	41.284	1.00 19.95
ATOM	3408	CD	LYS F	19	64.635	26.542	42.272	1.00 30.75
ATOM	3409	CE	LYS F		65.069	25.042	42.296	1.00 38.00
MOTA	3410	ΝZ	LYS F		64.080	24.155	43.048	1.00 41.42
ATOM	3411	N	LEU F	20	63.745	30.203	39.143	1.00 9.06
ATOM	3412	CA	LEU F				38.690	1.00 12.10
					62.380	30.368		
ATOM	3413	C.	LEU H	20	61.543	29.085	38.687	1.00 17.40
ATOM	3414	0	LEU F	20	62.046	28.014	38.370	1.00 22.92
ATOM	3415	CB	LEU F		62.412	30.964	37.291	1.00 12.04
MOTA	3416	CG	TEA F	20	62.542	32.497	37.274	1.00 12.14
ATOM	3417	CDI	LEU F		63.537	32.999	38.296	1.00 5.69
MOTA	3418	CDZ	LEU F	20	63.004	32.930	35.911	1.00 13.65

ATOM	3419	N	SER H	21	60.268	29.173	39.061	1.00 20.17
ATOM	3420	CA	SER H	21	59.432	27.981	39.039	1.00 19.80
ATOM	3421	C	SER H	21	58.250	28.244	38.169	1.00 16.80
ATOM	3422	ō	SER H	21	57.908	29.400	37.911	1.00 15.16
				21	58.915	27.646	40.412	1.00 27.97
MOTA	3423	CB	SER H					1.00 27.97
MOTA	3424	OG	SER H	21	57.517	27.878	40.435	
ATOM	3425	N	CYS H	22	57.626	27.165	37.724	1.00 14.85
ATOM	3426	CA	CYS H	22	56.454	27.269	36.866	1.00 18.78
ATOM	3427	С	CYS H	22	55.565	26.061	37.139	1.00 24.53
ATOM	3428	0	CYS H	22	55.985	24.919	36.937	1.00 26.59
ATOM	3429	CB	CYS H	22	56.895	27.312	35.412	1.00 12.54
ATOM	3430	SG	CYS H	22	55.718	26.698	34.180	1.00 10.76
ATOM	3431	N	LYS H	23	54.341	26.312	37.617	1.00 26.88
ATOM	3432	CA	LYS H	23	53.410	25.230	37.957	1.00 29.75
ATOM	3433	C	LYS H	23	52.321	24.990	36.876	1.00 27.79
				23	51.441	25.827	36.631	1.00 27.75
MOTA	3434	0	LYS H					
MOTA	3435	СВ	LYS H	23	52.796	25.531	39.335	1.00 29.85
ATOM	3436	CG	LYS H	23	51.808	24.504	39.815	1.00 35.65
ATOM	3437	CD	LYS H	23	51.709	24.511	41.322	1.00 41.27
ATOM	3438	CE	LYS H	23	50.847	23.345	41.801	1.00 49.14
ATOM	3439	NZ	LYS H	23	49.389	23.722	41.779	1.00 55.40
ATOM	3440	N	ALA H	24	52.404	23.865	36.187	1.00 20.79
ATOM	3441	CA	ALA H	24	51.422	23.607	35.154	1.00 21.70
ATOM	3442	С	ALA H	24	50.207	23.048	35.814	1.00 23.78
ATOM	3443	O	ALA P	24	50.241	22.744	37.008	1.00 23.81
ATOM	3444	CB	ALA H	24	51.958	22.610	34.136	1.00 23.32
ATOM	3445	N	SER H	25	49.146	22.909	35.015	1.00 25.55
ATOM	3446	CA	SER H	25	47.861	22.356	35.452	1.00 24.93
ATOM	3447	C	SER H	25	46.845	22.415	34.317	1.00 23.64
ATOM	3448	0	SER H	25	46.924	23.279	33.429	1.00 24.47
ATOM	3449	CB	SER H	25	47.296	23.137	36.631	1.00 24.33
ATOM	3450	OG	SER H	25	46.499	24.212	36.171	1.00 24.09
MOTA	3451	N	GLY H	26	45.874	21.517	34.355	1.00 18.47
ATOM	3452	CA	GLY H	26	44.897	21.536	33.296	1.00 18.14
ATOM	3453	С	GLY H	26	45.177	20.510	32.235	1.00 20.57
ATOM	3454	0	GLY H	26	44.386	20.394	31.292	1.00 23.72
ATOM	3455	N	TYR H	27	46.269	19.751	32.385	1.00 21.48
MOTA	3456	CA	TYR H	27	46.642	18.721	31.400	1.00 18.42
MOTA	3457	С	TYR H	27	47.600	17.733	31.999	1.00 15.48
ATOM	3458	0	TYR H	27	48.016	17.919	33.134	1.00 17.84
ATOM	3459	CB	TYR H	27	47.302	19.350	30.187	1.00 17.96
ATOM	3460	CG	TYR H	27	48.619	20.007	30.475	1.00 15.46
ATOM	3461	CD1	TYR H	27	48.691	21.194	31.197	1.00 14.78
ATOM	3462	CD2		27	49.783	19.487	29.959	1.00 14.72
ATOM	3463		TYR H	27	49.909	21.864	31.394	1.00 18.45
ATOM	3464	CE2	TYR H	27	50.983	20.131	30.139	1.00 20.94
ATOM	3465	CZ	TYR H	27	51.054	21.338	30.861	1.00 21.48
ATOM	3466	OH	TYR H	27	52.237	22.053	31.037	1.00 20.99
ATOM	3467	N	ILE H	28	47.951	16.683	31.257	1.00 15.85
MOTA	3468	CA	ILE H	28	48.904	15.713	31.796	1.00 17.56
ATOM	3469	С	ILE H	28	50.294	16.347	31.650	1.00 19.14
ATOM	3470	0	ILE H	28	50.789	16.625	30.534	1.00 14.96
MOTA	3471	CB	ILE H	28	48.857	14.410	31.054	1.00 18.23
MOTA	3472	CG1	ILE H	28	47.558	13.694	31.398	1.00 15.56
MOTA	3473	CG2	ILE H	28	50.072	13.589	31.:26	1.00 22.20
ATOM	3474	CD1	ILE H	28	47.168	12.643	30.433	1.00 19.71
ATOM	3475	N	PHE H	29	50.876	16.649	32.803	1.00 18.12
ATOM	3476	CA	PHE H	29	52.174	17.305	32.880	1.00 16.65
ATOM	3477	С	PHE H	29	53.299	16.679	32.071	1.00 23.89
ATOM	3478	ō	PHE H	29	53.939	17.322	31.224	1.00 29.83
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MOTA	3479	CB	PHE H	29	52.601	17.353	34.316	1.00 7.88
ATOM	3480	CG	PHE H	29	53.795	18.133	34.534	1.00 2.40
	3481	CD1	PHE H		53.819	19.452	34.178	1.00 2.00
MOTA					54.852	17.604	35.234	1.00 4.90
MOTA	3482	CD2	PHE H					
MOTA	3483	CEl	PHE H	29	54.884	20.262	34.539	
ATOM	3484	CE2	PHE H	29	55.929	18.414	35.606	1.00 10.07
ATOM	3485	CZ	PHE H		55.940	19.756	35.257	1.00 2.83
	3486	N	THR H		53.512	15.394	32.320	1.00 24.14
MOTA					54.568	14.639	31.669	1.00 19.41
ATOM	3487	CA	THR H					1.00 18.38
MOTA	3488	С	THR H		54.413	14.449	30.167	
ATOM	3489	0	THR H	30	55.324	13.998	29.531	1.00 26.29
MOTA	3490	CB	THR H	30	54.639	13.245	32.211	1.00 18.03
ATOM	3491	OG1	THR H		53.564	12.490	31.629	1.00 19.41
		CG2	THR H		54.586	13.241	33.743	1.00 8.10
MOTA	3492					14.735	29.592	1.00 15.82
ATOM	3493	N	SER H		53.270			
·ATOM	3494	CA	SER H	31	53.132	14.516	28.172	1.00 12.69
ATOM	3495	С	SER H	31	53.475	15.753	27.364	1.00 6.94
MOTA	3496	0	SER H	31	53.166	15.804	26.154	1.00 2.08
MOTA	3497	СВ	SER F		51.712	14.060	27.861	1.00 23.01
			SER H		51.325	13.037	28.764	1.00 33.53
MOTA	3498	OG					28.013	1.00 2.00
MOTA	3499	N	TYR F		54.075	16.759		
ATOM	3500	CA	TYR F	i 32	54.463	17.973	27.264	1.00 10.47
MOTA	3501	С	TYR F	32	55.81 7	18.539	27.583	1.00 12.02
ATOM	3502	0	TYR H	32	56.162	18.729	28.739	1.00 11.11
ATOM	3503	СВ	TYR H		53.420	19.108	27.345	1.00 9.71
		CG	TYR I		52.121	18.694	26.707	1.00 12.61
MOTA	3504						25.356	1.00 7.67
MOTA	3505	CD1	TYR H		51.923	18.811		
MOTA	3506	CD2	TYR F		51.170	18.000	27.446	1.00 19.75
ATOM	3507	CE1	TYR F	1 32	50.831	18.240	24.764	1.00 14.84
ATOM	3508	CE2	TYR F	i 32	50.078	17.426	26.863	1.00 15.68
ATOM	3509	CZ	TYR F		49.906	17.541	25.524	1.00 15.42
ATOM	3510	ОН	TYR I		48.792	16.975	24.925	1.00 21.21
					56.602	18.786	26.540	1.00 11.13
MOTA	3511	N	TYR I				26.791	1.00 7.27
MOTA	3512	CA	TYR I		57.900	19.317		
ATOM	3513	С	TYR I		57.639	20.735	27.202	1.00 5.60
ATOM	3514	0	TYR I	H 33	56.881	21.473	26.574	1.00 3.67
ATOM	3515	CB	TYR I	H 33	58.752	19.253	25.530	1.00 12.61
ATOM	3516	CG	TYR I		59.575	17.999	25.413	1.00 11.71
	3517	CD1			58.964	16.759	25.324	1.00 16.48
ATOM					60.963	18.048	25.412	1.00 12.62
ATOM	3518	CD2			•			1.00 20.50
ATOM	3519	CE1			59.713	15.583	25.240	
MOTA	3520	CE2	TYR		61.733	16.876	25.328	1.00 14.82
ATOM	3521	CZ	TYR I	н 33	61.092	15.640	25.242	1.00 18.63
ATOM	3522	OH	TYR :	н 33	61.779	14.446	25.149	1.00 13.95
ATOM	3523	N	MET	н 34	58.251	21.103	28.300	1.00 4.75
ATOM	3524	CA	MET		58.114	22.436	28.795	1.00 5.34
					59.308	23.242	28.274	1.00 5.81
ATOM	3525	С	MET					
ATOM	3526	0	MET !		60.450	22.832	28.442	1.00 8.85
MOTA	3527	CB	MET	H 34	58.119	22.398	30.328	1.00 6.45
MOTA	3528	CG	MET	н 34	57.684	23.701	30.989	1.00 16.87
MOTA	3529	SD	MET	н 34	56.129	24.303	30.289	1.00 24.50
ATOM	3530	CE	MET		54.978	23.764	31.581	1.00 28.13
					59.058		27.626	1.00 2.00
ATOM	3531	N	TYR			24.369		
MOTA	3532	CA	TYR		60.150	25.209	27.173	
MOTA	3533	С	TYR		60.380	26.315	28.166	1.00 3.51
MOTA	3534	0	TYR	н 35	59.739	26.357	29.180	1.00 7.93
ATOM	3535	CB	TYR	н 35	59.806	25.901	25.874	1.00 5.78
MOTA	3536	CG	TYR		59.929	25.044	24.641	1.00 8.66
ATOM	3537	CD1			60.052	23.662	24.727	1.00 2.00
							23.382	1.00 5.33
ATOM	3538	CD2	TYR	н 35	59.744	25.611	23.302	1.00 3.33

			 11	25		TO 050	22 071	23.590	1.00 2.01	ł
ATOM	3539		TYR H			59.958	22,871			
MOTA	3540	CE2	TYR H			59.652	24.831	22.252		
MOTA	3541	CZ	TYR H	35		59.747	23.464	22.356	1.00 4.59	
ATOM	3542	OH	TYR H	35		59.558	22.707	21.215	1.00 11.39	
ATOM	3543	N	TRP H	36		61.324	27.193	27.853	1.00 6.12	
ATOM	3544	CA	TRP H			61.602	28.398	28.623	1.00 9.79)
ATOM	3545	C	TRP H			62.084	29.454	27.586	1.00 14.99	Э
ATOM	3546	Ö	TRP H			62.938	29.187	26.741	1.00 18.73	1
		СВ	TRP H			62.641	28.142	29.701	1.00 5.89	
ATOM	3547					62.100	27.298	30.802	1.00 11.30	
MOTA	3548	CG	TRP H				25.932	30.811	1.00 13.2	
MOTA	3549	CDI	TRP H			61.998		32.091	1.00 13.2	
MOTA	3550	CD2	TRP H			61.662	27.738			
ATOM	3551	NE1	TRP H			61.531	25.496	32.030	1.00 14.6	
ATOM	3552	CE2	TRP H	36		61.320	26.583	32.833	1.00 10.9	
ATOM	3553	CE3	TRP H	1 36		61.527	28.990	32.689	1.00 11.9	
MOTA	3554	CZ2	TRP F	I 36		60.860	26.645	34.136	1.00 12.0	3
ATOM	3555	CZ3	TRP F	I 36		61.073	29.056	33.981	1.00 14.6	6
ATOM	3556	CH2	TRP F			60.744	27.888	34.697	1.00 16.1	8
ATOM	3557	N	VAL I			61.489	30.636	27.612	1.00 13.3	8
ATOM	3558	CA	VAL H			61.831	31.684	26.672	1.00 8.4	
	3559	C	VAL I			62.192	32.945	27.432	1.00 13.4	
ATOM			VAL I			61.563	33.268	28.428	1.00 21.8	
ATOM	3560	0				60.633	31.944	25.829	1.00 3.3	
ATOM	3561	CB	VAL I					24.771	1.00 4.9	
ATOM	3562	CG1				60.928	32.971			
MOTA	3563	CG2	VAL I			60.190	30.644	25.264		
MOTA	3564	N	LYS I			63.220	33.651	26.995	1.00 12.7	
MOTA	3565	CA	LYS I			63.621	34.880	27.667	1.00 11.1	
ATOM	3566	С	LYS I	38		63.233	35.944	26.704	1.00 7.9	
ATOM	3567	0	LYS I	3E F	l	63.175	35.666	25.523	1.00 3.4	
ATOM	3568	CB	LYS I	3E E	;	65.140	34.881	27.919	1.00 17.4	
ATOM	3569	CG	LYS 1	3E H	1	65.932	36.081	27.398	1.00 18.4	9
ATOM	3570	CD	LYS 1		1	66.797	36.731	28.508	1.00 27.5	5
ATOM	3571	CE	LYS I			68.295	36.333	28.419	1.00 28.2	2
ATOM	3572	NZ	LYS			68.992	36.080	29.757	1.00 30.5	1
ATOM	3573	N	GLN 1			62.844	37.115	27.200	1.00 10.4	6
ATOM	3574	CA	GLN I			62.508	38.244	26.311	1.00 14.4	2
ATOM	3575	C	GLN			63.000	39.415	27.138	1.00 19.2	
	3576	Ö	GLN I			62.504	39.627	28.231	1.00 23.4	
MOTA	3577		GLN :			60.994	38.360	26.017	1.00 2.0	
ATOM		CB				60.588	39.755	25.535	1.00 3.4	
ATOM	3578	CG	GLN :			59.377	39.784	24.611	1.00 3.2	
ATOM	3579	CD	GLN :				39.704	25.001	1.00 5.6	
MOTA	3580		GLN			58.274		23.371	1.00 2.2	
MOTA	3581	NE2				59.587	40.229		1.00 23.4	
MOTA	3582	N	ALA			64.009	40.129	26.641		
MOTA	3583	CA	ALA			64.595	41.236	27.373	1.00 26.7	
MOTA	3584	С	ALA			64.147	42.560	26.850	1.00 34.2	
MOTA	3585	0	ALA			63.917	42.717	25.658	1.00 33.7	
MOTA	3586	CB	ALA	H 4)	66.068	41.159	27.309	1.00 32.8	
MOTA	-3587	N	PRO	H 4	l	64.053	43.553	27.744	1.00 40.5	
MOTA	3588	CA	PRO	H 4	l	63.616	44.890	27.367	1.00 41.2	6.
ATOM	3589	С	PRO		l	64.052	45.193	25.977	1.00 41.3	9
ATOM	3590	0	PRO			65.239	45.220	25.708	1.00 42.2	29
ATOM	3591	СВ	PRO			64.278	45.772	28.408	1.00 41.2	22
ATOM	3592	CG	PRO			64.186	44.917	29.651	1.00 41.1	15
ATOM	3593	CD	PRO			64.397	43.484	29.176	1.00 42.5	
			GLY			63.084	45.364	25.087	1.00 46.9	
ATOM	3594	N CA	GLY			63.391	45.681	23.701	1.00 56.6	
ATOM	3595					63.936		22.954	1.00 60.3	
ATOM	3596	С	GLY				44.402	21.748	1.00 61.8	
ATOM	3597	0	GLY			63.690			1.00 60.3	
ATOM	3598	N	GLN	H 4	3	64.708	43.670	23.674	T.00 00.	ے د

ATOM	3599	CA	GLN H	43	(65.262	42.454	23.117	1.00 59.39
ATOM	3600	С	GLN H	43	6	64.092	41.486	22.800	1.00 56.89
			GLN H			63.017	41.544	23.425	1.00 56.32
MOTA	3601	0							
ATOM	3602	CB	GLN H			66.260	41.822	24.101	1.00 61.13
ATOM	3603	CG	GLN H	43	. (67.290	40.895	23.418	1.00 65.01
MOTA	3604	CD	GLN H	43	(67.189	40.931	21.876	1.00 65.34
ATOM	3605	OE1	GLN H	43	(67.487	41.955	21.252	1.00 64.57
		NE2	GLN H			66.754	39.817	21.271	1.00 57.19
MOTA	3606								
ATOM	3607	N	GLY H			64.301	40.618	21.808	1.00 50.84
ATOM	3608	CA	GLY H	44		63.264	39.695	21.397	1.00 38.12
ATOM	3609	С	GLY H	44	(63.025	38.463	22.228	1.00 30.55
ATOM	3610	0	GLY H	44		63.403	38.381	23.408	1.00 25.06
ATOM	3611	N	LEU H			62.361	37.510	21.576	1.00 23.84
	3612	CA	LEU H			62.009	36.241	22.178	1.00 21.17
MOTA									
MOTA	3613	С	LEU H			63.134	35.264	21.924	1.00 18.20
ATOM	3614	0	LEU H			63.463	35.002	20.779	1.00 19.93
MOTA	3615	CB	LEU H	45	1	60.720	35.706	21.550	1.00 23.94
ATOM	3616	CG	LEU H	45		59.301	36.027	22.073	1.00 24.28
ATOM	3617	CD1				59.330	37.035	23.232	1.00 23.55
	3618	CD2				58.453	36.559	20.913	1.00 19.17
ATOM	3619	N	GLU H			63.714	34.719	22.985	1.00 17.59
ATOM	3620	CA	GLU H			64.826	33.774	22.861	1.00 15.88
ATOM	3621	C	GLU H	46		64.503	32.477	23.576	1.00 16.17
ATOM	3622	0	GLU H	46		64.052	32.494	24.710	1.00 21.56
ATOM	3623	СВ	GLU H			66.094 .	34.343	23.488	1.00 18.20
ATOM	3624	CG	GLU H			66.737	35.513	22.776	1.00 19.83
							35.507	22.964	1.00 27.67
ATOM	3625	CD	GLU H			68.236			
ATOM	3626	OE1				68.697	35.870	24.089	1.00 30.03
MOTA	3627	OE2	GLU H	46		68.928	35.129	21.980	1.00 29.79
ATOM	3628	N	TRP F	47		64.750	31.352	22.932	1.00 14.55
ATOM	3629	CA	TRP F	47		64.450	30.067	23.540	1.00 12.90
ATOM	3630	С	TRP F			65.660	29.706	24.336	1.00 12.12
ATOM	3631	Ō	TRP H			66.759	29.784	23.831	1.00 12.63
ATOM	3632	CB	TRP F			64.202	29.027	22.449	1.00 15.56
ATOM	3633	CG	TRP F			63.873	27.647	22.925	1.00 18.86
ATOM	3634	CD1	TRP F	47		62.642	27.175	23.216	1.00 19.15
ATOM	3635	CD2	TRP F	47		64.770	26.525	23.045	1.00 24.08
ATOM	3636	NE1	TRP F	47		62.700	25.833	23.508	1.00 21.57
ATOM	3637	CE2	TRP F	1 47		63.993	25.407	23.401	1.00 24.30
ATOM	3638	CE3	TRP F			66.152	26.364	22.874	1.00 26.51
									1.00 25.95
ATOM	3639	CZ2	TRP H			64.550	24.127	23.593	
ATOM	3640	CZ3	TRP F			66.708	25.095	23.066	1.00 26.79
ATOM	3641	CH2	TRP F			65.906	23.993	23.419	1.00 25.28
ATOM	3642	N	ILE F	48		65.455	29.349	25.594	1.00 13.63
ATOM	3643	CA	ILE F	48		66.541	28.949	26.465	1.00 10.30
ATOM	3644	С	ILE F			66.754	27.442	26.372	1.00 12.52
ATOM	3645	Ō	ILE F			67.825	26.975	26.024	1.00 19.95
						66.227	29.314		
ATOM	3646	CB	ILE F					27.920	
MOTA	3647	CG1				66.323	30.830	28.087	1.00 6.61
ATOM	3648	CG2	ILE }	48		67.149	28.564	28.892	1.00 5.16
ATOM	3649	CD1	ILE F	i 48		65.409	31.358	29.185	1.00 17.92
ATOM	3650	N	GLY F	49		65.741	26.662	26.678	1.00 10.17
ATOM	3651	CA	GLY F			65.950	25.231	26.620	1.00 7.84
ATOM	3652	C	GLY F			64.644	24.491	26.740	1.00 6.81
									•
MOTA	3653	0	GLY H			63.584	25.094	26.630	1.00 12.08
ATOM	3654	N	GLU H			64.708	23.184	26.920	1.00 3.80
MOTA	3655	CA	GLU I			63.522	22.369	27.029	1.00 4.48
ATOM	3656	С	GLU I	i 50		63.790	21.322	28.079	1.00 7.31
ATOM	3657	0	GLU F			64.933	21.025	28.386	1.00 9.12
ATOM	3658	СВ	GLU F			63.243	21.685	25.696	1.00 2.00
			020 1			55.245	21.005	20.000	

ATOM	3659	CG	GLU H	50	64.120	20.490	25.414	1.00 2.00
ATOM	3660	CD	GLU H	50	63.843	19.912	24.053	1.00 6.10
ATOM	3661	OE1	GLU H	50	62.718	20.111	23.553	1.00 9.43
				50		19.266	23.469	1.00 11.67
ATOM	3662	OE2	GLU H		64.738			
ATOM	3663	N	ILE H	51	62.718	20.780	28.645	1.00 12.03
ATOM	3664	CA	ILE H	51	62.822	19.702	29.620	1.00 10.68
ATOM	3665	С	ILE H	51	61.617	18.810	29.427	1.00 12.18
ATOM	3666	0	ILE H	51	60.513	19.283	29.190	1.00 19.09
ATOM	3667	СВ	ILE H	51	62.805	20.202	31.021	1.00 8.39
		CG1		51	63.165	19.053	31.959	1.00 2.00
MOTA	3668		ILE H					
MOTA	3669	CG2	ILE H	51	61.462	20.887	31.297	1.00 12.16
ATOM	3670	CD1	ILE H	51	64.076	19.569	33.066	1.00 2.00
ATOM	3671	N	ASN H	52	61.829	17.515	29.411	1.00 13.27
MOTA	3672	CA	ASN H	52	60.692	16.622	29.269	1.00 15.07
MOTA	3673	С	ASN H	52	60.437	16.424	30.736	1.00 14.95
MOTA.	3674	Ō	ASN H	52	61.335	15.998	31.461	1.00 14.06
	3675			52	61.131	15.331	28.601	1.00 16.65
ATOM		CB	ASN H					
ATOM	3676	CG	ASN H	52	60.273	14.192	28.961	1.00 13.83
ATOM	3677	OD1	ASN H	52	59.581	14.231	29.980	1.00 11.32
MOTA	3678	ND2	ASN H	52	60.306	13.150	28.136	1.00 13.85
ATOM	3679	N	PRO H	53	59.216	16.703	31.206	1.00 18.02
ATOM	3680	CA	PRO H	53	59.108	16.498	32.658	1.00 18.18
ATOM	3681	С	PRO H	53	58.972	15.041	33.092	1.00 14.41
ATOM	3682	o	PRO H	53	59.364	14.691	34.214	1.00 13.76
							33.073	1.00 15.70
ATOM	3683	СВ	PRO H	53	57.943	17.413		
ATOM	3684	CG	PRO H	53	57.071	17.486	31.796	1.00 18.69
ATOM	3685	CD	PRO H	53	57.947	17.121	30.587	1.00 15.42
ATOM	3686	N	SER H	54	58.480	14.188	32.195	1.00 4.74
ATOM	3687	CA	SER H	54	58.357	12.793	32.540	1.00 4.44
ATOM	3688	С	SER H	54	59.737	12.297	32.896	1.00 7.63
ATOM	3689	0	SER H	54	59.943	11.653	33.922	1.00 2.00
ATOM	3690	СВ	SER H	54	57.872	11.991	31.346	1.00 8.43
ATOM	3691	OG	SER H	54	58.705	10.864	31.132	1.00 13.64
	3692		ASN H	55	60.681	12.698	32.036	1.00 18.13
ATOM		N			62.107	12.334	32.056	1.00 10.13
ATOM	3693	CA	ASN H	55				
ATOM	3694	С	ASN H	55	63.074	12.944	33.057	1.00 12.37
MOTA	3695	0	ASN H	55	63.646	12.252	33.892	1.00 13.02
ATOM	3696	CB	ASN H	55	62.704	12.597	30.674	1.00 20.98
ATOM	3697	CG	ASN H	55	63.447	11.412	30.151	1.00 32.01
ATOM	3698	OD1	ASN H	55	63.846	10.525	30.929	1.00 28.56
ATOM	3699	ND2	ASN H	55	63.642	11.363	28.821	1.00 40.22
ATOM	3700	N	GLY H	56	63.237	14.257	32.949	1.00 9.46
ATOM	3701	CA	GLY H	56	64.206	15.003	33.732	1.00 3.07
ATOM	3702	С	GLY H	56	65.107	15.509	32.605	1.00 2.00
ATOM	3703	ō	GLY H	56	65.732	16.560	32.651	1.00 2.00
ATOM	3704		ASP H	57	65.074	14.742	31.519	1.00 3.10
		N						
ATOM	3705	CA	ASP H	57	65.844	14.988	30.318	
MOTA	3706	С	ASP H	57	65.731	16.445	29.837	1.00 3.64
ATOM	3707	0	ASP H	57	64.641	1.7.018	29.820	1.00 6.81
MOTA	3708	CB	ASP H	57	65.351	14.005	29.240	1.00 5.97
ATOM	3709	CG	ASP H	57	66.347	13.828	28.060	1.00 14.00
MOTA	3710	OD1	ASP H	57	65.935	13.363	26.950	1.00 16.19
ATOM	3711		ASP H	57	67.541	14.157	28.240	1.00 15.29
ATOM	3712		THR H	58	66.849	17.031	29.414	1.00 2.00
		N						1.00 2.00
ATOM	3713	CA	THR H	58	66.838	18.402	28.915	
ATOM	3714	С	THR H	58	67.547		27.566	1.00 2.00
ATOM	3715	0	THR H	58	68.221	17.775	26.963	1.00 3.96
ATOM	3716	CB	THR 'H	58	67.476		29.927	1.00 2.12
MOTA	3717	OG1	THR H	58	68.877	19.328	29.724	1.00 16.92
MOTA	3718	CG2	THR H	58	67.293	18.832	31.294	1.00 10.63

ATOM	3719	N	ASN H	59	67.375	19.864	27.104	1.00	2.00
ATOM	3720	CA	ASN H		67.992	20.304	25.892	1.00	3.72
ATOM	3721	C.	ASN H		68.102	21.825	25.864	1.00	6.65
ATOM	3722	Ö	ASN H		67.116	22.511	25.870	1.00	17.89
	3723	СВ	ASN H		67.202	19.734	24.741	1.00	2.00
MOTA	3723	CG	ASN H		67.663	18.326	24.392		13.03
MOTA					68.795	18.118	23.963		25.07
MOTA	3725		ASN H	•	66.798	17.357	24.574	_	16.27
MOTA	3726		ASN F		69.308	22.369	25.823		10.13
MOTA	3727	N	PHE F		69.451	23.820	25.847	.1.00	6.06
MOTA	3728	CA	PHE F		69.878	24.478	24.554	1.00	6.84
MOTA	3729	C	PHE F		70.371	_	23.626		10.20
ATOM	3730	0_	PHE F			23.847		1.00	4.24
ATOM	3731	CB	PHE F		70.460	24.192	26.904	1.00	6.68
MOTA	3732	CG	PHE I		70.023	23.868	28.285	1.00	2.00
MOTA	3733		PHE H		69.909	22.544	28.695		
MOTA	3734	CD2	PHE I		69.734	24.916	29.190	1.00	
MOTA	3735	CE1	PHE F		69.514	22.255	29.982	1.00	6.42
MOTA	3736	CE2	PHE F		69.333	24.664	30.510	1.00	4.77
MOTA	3737	CZ	PHE I		69.221	23.323	30.920	1.00	8.53
ATOM	3738	И	ASN I		69.678	25.771	24.492	1.00	9.03
MOTA	3739	CA	ASN I		70.126	26.507	23.339	1.00	12.79
ATOM	3740	С	ASN I		71.545	26.796	23.804	1.00	16.26
ATOM	3741	0	ASN I		71.748	27.377	24.876	1.00	
MOTA	3742	CB	ASN I		69.341	27.808	23.192	1.00	17.42
MOTA	3743	CG	ASN 1		70.005	28.797	22.256	1.00	
MOTA	3744	OD1			71.102	28.563	21.738		27.11
MOTA	3745	ND2	ASN 1		69.352	29.928	22.052	1.00	
ATOM	3746	N	GLU I	H 62	72.513	26.356	23.009	1.00	
MOTA	3747	CA	GLU 1		73.926	26.539	23.328		19.19
MOTA	3748	С	GLU 1	4 62	74.159	27.886	23.973	1.00	14.12
MOTA	3749	0	GLU 1	H 62	74.786	27.987	25.028	1.00	
MOTA	3750	CB	GLU :		74.783	26.427	22.047		23.39
ATOM	3751	CG	GLU :	H 62	76.019	25.546	22.205		23.93
MOTA	3752	CD	GLU !	H 62	75.634	24.140	22.459		28.93
ATOM	3753	OE1	GLU		75.900	23.665	23.575		37.40
ATOM	3754	OE2	GLU :	H 62	75.050	23.514	21.553	1.00	33.26
ATOM	3755	N	LYS :		73.635	28.909	23.326	1.00	5.16
ATOM	3756	CA	LYS		73.782	30.255	23.792	1.00	7.92
MOTA	3757	С	LYS	н 63	73.462	30.449	25.256	1.00	11.25
MOTA	3758	0	LYS		73.767	31.510	25.784		15.83
ATOM	3759	CB	LYS	н 63	72.927	31.176	22.919		12.39
ATOM	3760	CG		н 63	72.408	32.439	23.584	1.00	19.94
MOTA	3761	CD	LYS		73.385	33.616	23.581		32.18
MOTA	3762	CE	LYS	н 63	72.831	34.820	24.384		36.50
ATOM	3763	ΝZ	LYS	н 63	73.351	36.163	23.921		42.93
ATOM	3764	N	PHE	н 64	72.873	29.437	25.909		16.35
ATOM	3765	CA	PHE	н 64	72.464	29.510	27.329		17.29
ATOM	3766	С	PHE	н 64	72.857	28.313	28.151		21.51
ATOM	3767	0	PHE	н 64	72.498	28.242	29.319		24.17
ATOM	3768	CB	PHE	н 64	70.941	29.607	27.485		10.43
MOTA	3769	CG	PHE	н 64	70.357	30.916	27.051	1.00	5.33
MOTA	3770	CD1	PHE	н 64	70.083	31.159	25.706	1.00	6.12
ATOM	3771		PHE		70.082	31.894	27.966	1.00	2.00
ATOM	3772		PHE		69.559	32.348	25.284	1.00	2.00
ATOM	3773		PHE		69.555	33.091	27.549	1.00	7.08
ATOM	3774	CZ	PHE		69.297	33.318	26.201	1.00	5.79
ATOM	3775	N	LYS		73.567	27.369	27.548	1.00	26.74
ATOM	3776	CA	LYS		73.970	26.150	28.235	1.00	24.83
ATOM	3777	С	LYS		74.548	26.412	29.617	1.00	25.17
ATOM	3778	0.	LYS		74.388	25.613	30.537	1.00	21.45

MOTA	3779	CB	LYS F	1 6	55	74.975	25.401	27.368	1.00	24.88
MOTA	3780	CG	LYS F	1 6	55	74.726	23.923	27.315	1.00	30.59
	3781		LYS F		55	74.598	23.371	28.739	1.00	45.86
MOTA		CD						29.188	1.00	
ATOM	3782	CE	LYS I		55	73.110	23.192			
MOTA	3783	ΝZ	LYS F		55	72.755	23.762	30.540	1.00	
ATOM	3784	N	SER H	1 6	56	75.196	27.562	29.755	1.00	
ATOM	3785	CA	SER H	1 6	6	75.813	27.946	31.003	1.00	29.98
	3786	C	SER I		56	74.839	28.574	31.985	1.00	28.87
ATOM					66	74.818	28.154	33.143		35.89
ATOM	3787	0	SER I					30.726		33.63
MOTA	3788	CB	SER I		66	76.925	28.926			
MOTA	3789	OG	SER I	1 6	56	76.384	30.024	30.016		43.10
MOTA	3790	N	LYS I	1 6	57	74.035	29.549	31.535	1.00	23.77
ATOM	3791	CA	LYS I	н 6	57	73.079	30.253	32.404	1.00	20.85
ATOM	3792	C	LYS I		57	71.921	29.491	33.012	1.00	21.18
			LYS I		57	71.522	29.783	34.135		27.12
ATOM	3793	0						31.702		16.56
MOTA:	3794	CB	LYS I		57	72.487	31.466			
MOTA	3795	CG	LYS I		57	72.798	32.765	32.426		24.87
MOTA	3796	CD	LYS I	H 6	57	74.256	33.234	32.217	1.00	33.34
MOTA	3797	CE	LYS 1	н (57	74.367	34.632	31.536	1.00	34.81
ATOM	3798	NZ	LYS		67	74.915	34.621	30.122	1.00	38.08
			ALA I		58	71.406	28.489	32.326		15.07
MOTA	3799	N						32.840		13.62
MOTA	3800	CA	ALA 1		68	70.240	27.820			
ATOM	3801	С	ALA :		68	70.369	26.432	33.365		16.23
MOTA	3802	0	ALA :	H (68	71.251	25.711	32.981	1.00	21.62
MOTA	3803	CB	ALA :	H (68	69.193	27.836	31.784	1.00	17.88
ATOM	3804	N	THR :	H (69	69.417	26.041	34.207	1.00	16.45
ATOM	3805	CA	THR		69	69.396	24,706	34.769	1.00	13.87
	3806	C	THR		69	67.952	24.250	34.882		13.16
ATOM							24.486	35.871		18.51
ATOM	3807	0	THR		69	67.294				
ATOM	3808	CB	THR		69	70.030	24.681	36.156	1.00	11.01
MOTA	3809	OG1	THR	H (69	71.114	25.600	36.184		19.11
MOTA	3810	CG2	THR	H	69	70.563	23.338	36.481	1.00	9.33
MOTA	3811	N	LEU	H '	70	67.460	23.588	33.858	1.00	10.67
MOTA	3812	CA	LEU	H '	70	66.108	23.081	33.862	1.00	11.13
ATOM	3813	С	LEU		70	65.946	21.849	34.781	1.00	13.36
	3814	0	LEU		70	66.760	20.920	34.778		15.49
MOTA							22.739	32.417		10.44
ATOM	3815	СВ	LEU		70	65.723				
MOTA	3816	CG	LEU		70	65.872	23.956	31.481	1.00	8.53
MOTA	3817	CD1			70	65.054	23.696	30.187	1.00	5.13
ATOM	3818	CD2	LEU	H	70	65.489	25.269	32.180	1.00	2.00
ATOM	3819	N	THR	Н	71	64.845	21.811	35.520	1.00	15.44
ATOM	3820	CA	THR	H	71	64.585	20.702	36.426	1.00	14.26
MOTA	3821	С	THR		71	63.079	20.637	36.649	1.00	12.85
MOTA	3822	Ö	THR		71	62.408	21.633	36.383	1.00	16.56
	3823	СВ	THR		71	65.305	20.932	37.713	1.00	8.24
MOTA										
MOTA	3824		THR		71	64.368	20.948	38.771		17.91
MOTA	3825	CG2			71	65.994	22.224	37.679	1.00	7.43
MOTA	3826	N	VAL	Н	72	62.524	19.491	37.076	1.00	8.71
ATOM	3827	CA	VAL	H	72	61.074	19.444	37.290	1.00	9.16
ATOM	3828	С	VAL	H	72	60.635	18.579	38.440	1.00	12.29
ATOM	3829	0	VAL		72	61.332	17.663	38.815	1.00	
	3830	СВ	VAL		72	60.284	18.983	36.020	1.00	8.41
ATOM								34.808	1.00	13.75
ATOM	3831		VAL		72	61.082	19.234			
ATOM	3832		VAL		72	59.898	17.517	36.080	1.00	8.72
ATOM	3833	N	ASP		73	59.488	18.878	39.035	1.00	
MOTA	3834	CA	ASP		73	58.984	18.044	40.117	1.00	20.97
ATOM	3835	С	ASP		73 .	57.741	17.312	39.635	1.00	18.90
ATOM	3836	Ô	ASP		73	56.612	17.646	39.966	1.00	19.12
ATOM	3837	СВ	ASP		73	58.655	18.829	41.393		28.43
								42.399		39.45
MOTA	3838	CG	ASP	n	73	57.841	17.984	32.333	1.00	55.45

MOM K	3839	001	ASP	н	73	57.688	16.751	42.175	1.00 3	
MOTA			ASP		73	57.348	18.542	43.410	1.00 4	
ATOM	3840		LYS		74	57.974	16.303	38.825	1.00	19.19
ATOM	3841	N			74	56.901	15.484	38.307	1.00 2	22.27
MOTA	3842	CA	LYS		74	55.665	15.472	39.245	1.00 2	
MOTA	3843	С	LYS			54.530	15.726	38.818		18.65
MOTA	3844	0	LYS		74	57.447	14.065	38.131	1.00	
MOTA	3845	CB	LYS		74			36.836	1.00	
MOTA	3846	CG	LYS		74	57.063	13.380	37.025	1.00	
MOTA	3847	CD	LYS		74	57.030	11.872		1.00	
ATOM	3848	CE	LYS		74	58.259	11.162	36.482	1.00	
ATOM	3849	NZ	LYS		74	57.816	10.048	35.596	1.00	
MOTA	3850	N	SER	H	75	55.891	15.169	40.521		
MOTA	3851	CA	SER	H	75	54.783	15.114	41.477	1.00	
MOTA	3852	C	SER	H	75	54.040	16.461	41.551	1.00	
MOTA	3853	0	SER	Н	75	52.831	16.562	41.295	1.00	
MOTA	3854	CB	SER	H	75	55.297	14.747	42.872	1.00	
ATOM	3855	OG	SER	Н	75	54.983	15.792	43.779	1.00	
ATOM	3856	N	ALA		76	54.769	17.508	41.891	1.00	
MOTA	3857	CA	ALA		76	54.139	18.801	41.998	1.00	
	3858	C	ALA		76	53.796	19,412	40.641		24.67
MOTA	3859	Ö	ALA		76	53.458	20.597	40.557		21.54
ATOM		CB	ALA		76	55.032	19.741	42.778	1.00	28.25
MOTA	3860		SER		77	53.904	18.620	39.579	1.00	23.61
ATOM	3861	N			77	53.605	19.132	38.254		21.74
ATOM	3862	CA	SER		77	54.206	20.541	38.070		
MOTA	3863	С	SER		77	53.516	21.491	37.709		12.28
MOTA	3864	0	SER			52.109	19.170	38.096		19.44
MOTA	3865	CB	SER		77	51.805	19.695	36.831		31.31
MOTA	3866	OG	SER		77		20.648	38.310		22.14
MOTA	3867	N	THE		78	55.513		38.261		21.56
ATOM	3868	CA	THE		78	56.209	21.937	37.672		20.37
MOTA	3869	С	THF		78	57.601	21.882			25.17
ATOM	3870	0	THE		78	58.349	20.947	37.878		20.01
MOTA	3871	CB	THE	R F	78	56.347	22.509	39.700		23.14
ATOM	3872	OG:	1 THE	R F	78	55.043	22.747	40.229		11.01
ATOM	3873	CG	2 THF	R ⊱	78	57.142	23.789	39.742		
MOTA	3874	N	ALP	H A	79	57.954	22.923	36.959	-	17.02
ATOM	3875	CA	ALA	H A	79	59.256	22.990	36.380		18.03
ATOM	3876	C	ALA	H A	79	59.988	24.135	37.063		19.71
ATOM	3877	0	ALA	H A	79	59.373	25.045	37.610		24.57
ATOM	3878	CB	ALA	H A	79	59.126		34.917		21.23
ATOM	3879	N	TYI	ч н	80	61.309	24.123	36.994		20.27
ATOM	3880	CA	TY	я н	80	62.093		37.599		16.84
ATOM	3881	С		R H	80	63.254	25.507	36.680		18.92
MOTA	3882	Ö		R H	80	63.741	24.637	35.959		20.53
ATOM	3883	СB	_	R H		62.643	24.699	38.910		13.57
ATOM	3884	CG		RH		61.599	24.230	39.854		18.34
ATOM	3885			RH		61.315		41.013		16.06
	3886			R H			-23.019	39.640	1.00	19.18
MOTA	- 3887			R H		60.398		41.946		17.95
MOTA	3888			R H		59.984			1.00	25.39
ATOM						59.733			1.00	22.63
MOTA	3889			RH		58.819				27.86
ATOM	3890			R H		63.656		_		20.18
MOTA	3891			T H						21.00
ATOM	3892			T H		64.793		_		26.76
ATOM	3893			TH		65.680				29.73
ATOM	3894			T H		65.211			_	19.68
MOTA	3895			T H		64.400				15.00
MOTA	3896			T H		65.629				14.84
MOTA	3897	SI		T F		65.253				22.36
MOTA	3898	CE	E ME	T F	81	64.266	31.009	32.978	1.00	42.30

MOTA	3899	N	GLU H	82	66.970	27.673	36.796	1.00 33.77
ATOM	3900	CA	GLU H	82	67.909	28.323	37.697	1.00 36.03
ATOM	3901	С	GLU H	82	68.972	29.043	36.890	1.00 35.07
			GLU H	82	69.811	28.424	36.230	1.00 37.44
MOTA	3902	0			68.564	27.286	38.607	1.00 41.22
ATOM	3903	CB	GLU H	82				
MOTA	3904	CG	GLU H	82	69.213	27.868	39.855	1.00 48.37
MOTA	3905	CD	GLU H	82	69.823	26.797	40.747	1.00 53.98
MOTA	3906	OE1	GLU H	82	69.094	25.867	41.162	1.00 60.35
ATOM	3907	OE2	GLU H	82	71.034	26.877	41.039	1.00 56.70
ATOM	3908	N	LEU H	83	68.910	30.360	36.910	1.00 32.26
ATOM	3909	CA	LEU H	83	69.878	31.144	36.185	1.00 32.64
ATOM	3910	С	LEU H	83	70.930	31.438	37.215	1.00 34.17
ATOM	3911	Ō	LEU H	83	70.617	31.779	38.348	1.00 36.84
MOTA	3912	СВ	LEU H	83	69.227	32.425	35.661	1.00 33.23
	3913	CG	LEU H	83	67.945	32.120	34.872	1.00 35.01
ATOM				83	67.086	33.365	34.795	1.00 35.85
ATOM	3914	CD1	LEU H				33.485	1.00 33.63
ATOM	3915	CD2	LEU H	83	68.267	31.613		
MOTA	3916	N	SER H	84	72.184	31.296	36.829	1.00 36.42
ATOM	3917	CA	SER H	84	73.272	31.526	37.759	1.00 38.68
MOTA	3918	С	SER H	84	74.272	32.532	37.224	1.00 40.25
ATOM	3919	0	SER H	84	74.315	32.827	36.009	1.00 39.28
ATOM	3920	CB	SER H	84	73.996	30.210	38.069	1.00 37.57
ATOM	3921	OG	SER H	84	73.853	29.287	36.998	1.00 39.76
ATOM	3922	$N_{\mathbf{i}}$	SER H	85	75.075	33.058	38.150	1.00 41.06
ATOM	3923	CA	SER H	85	76.104	34.021	37.808	1.00 41.36
ATOM	3924	C	SER H	85	75.449	35.035	36.882	1.00 40.09
ATOM	3925	Ö	SER H	85	75.775	35.133	35.694	1.00 39.83
ATOM	3926	СВ	SER H	85	77.272		37.102	1.00 43.46
		OG	SER H	85	76.824		36.219	1.00 51.13
MOTA	3927		LEU H	86	74.493		37.434	1.00 31.13
ATOM	3928	N					36.642	1.00 36.14
ATOM	3929	CA	LEU H	86	73.778	36.740		
MOTA	3930	С	LEU H	86	74.561		36.332	1.00 36.52
ATOM	3931	0	LEU H	86	75.080		37.222	1.00 38.52
ATOM	3932	CB	LEU H	86	72.473		37.332	1.00 33.12
ATOM	3933.		LEU H	86	71.587		37.380	1.00 35.39
MOTA	3934	CD1	LEU H	86	70.707		38.610	1.00 40.57
ATOM	3935	CD2	LEU H	86	70.747		36.134	1.00 34.99
ATOM	3936	N	ARG H	87	74.683	38.289	35.051	1.00 37.35
ATOM	3937	CA	ARG H	87	75.344	39.510	34.633	1.00 40.13
ATOM	3938	С	ARG H	87	74.173	40.453	34.553	1.00 39.91
ATOM	3939	0	ARG H	87	73.041	40.045	34.775	1.00 39.08
ATOM	3940	CB	ARG H	87	75.953	39.392	33.238	1.00 44.41
ATOM	3941	CG	ARG H	87	76.845		33.010	1.00 52.95
ATOM	3942	CD	ARG H	87	76.491	37.469	31.692	1.00 57.87
ATOM	3943	NE	ARG H	87	76.941		30.489	1.00 63.88
ATOM	3944	CZ	ARG H	87	78.218		30.132	1.00 65.56
ATOM	3945		ARG H	87	79.199		30.887	1.00 66.51
MOTA				87	78.519		29.008	1.00 65.68
	3946		ARG H					1.00 42.08
MOTA	3947	N	SER H	88	74.427		34.184	
ATOM	3948	CA	SER H	88	73.354		34.082	1.00 44.25
ATOM	3949	С	SER H	88	72.465		32.856	1.00 42.94
ATOM	3950	0	SER H	88	71.246		32.901	1.00 46.92
ATOM	3951	CB	SER H	88	73.947		33.983	1.00 43.37
MOTA	3952	OG	SER H	88	73.681		32.712	1.00 45.06
ATOM	3953	N	GLU H	89	73.063	41.959	31.761	1.00 37.68
ATOM	3954	CA	GLU H	89	72.274	41.702	30.573	1.00 39.09
MOTA	3955	С	GLU H	89	71.374	40.470	30.719	1.00 38.78
ATOM	3956	O	GLU H	89	70.718		29.768	1.00 38.52
ATOM	3957	СВ	GLU H	89	73.185		29.355	1.00 41.33
ATOM	3958	CG	GLU H	89	74.424		29.422	1.00 43.31
				- •	- - -			

							25 465	41 050	30.340	1.00 45.54	
MOTA	3959	CD	GLU		89		75.465	41.858		1.00 49.09	
MOTA	3960	OE1	GLU	Н	89		76.176	42.625	31.028	1.00 45.87	
MOTA	3961	OE2	${\tt GLU}$	Н	89		75.563	40.612	30.378		
MOTA	3962	N	ASP	Н	90		71.334	39.927	31.924	1.00 37.39	
ATOM	3963	CA	ASP	Н	90		70.486	38.784	32.173	1.00 37.35	
ATOM	3964	С	ASP		90		69.055	39.225	32.508	1.00 36.39	
ATOM	3965	0	ASP	H	90		68.125	38.411	32.510	1.00 36.10	
ATOM	3966	СВ	ASP		90		71.077	37.968	33.312	1.00 41.03	
ATOM	3967	CG	ASP		90		72.118	36.987	32.832	1.00 40.38	
ATOM	3968	OD1			90		72.251	36.857	31.595	1.00 40.69	
MOTA	3969		ASP		90		72.788	36.356	33.685	1.00 40.54	
MOTA	3970	N	THR		91		68.879	40.523	32.762	1.00 34.68	
ATOM	3971	CA	THR		91		67.565	41.077	33.100	1.00 34.53	
ATOM	3972	C	THR		91		66.584	40.941	31.944	1.00 33.02	2
	3973	Ö	THR		91		66.916	41.252	30.794	1.00 32.7	7
MOTA	3974	СВ	THR		91		67.640	42.570	33.435	1.00 37.46	5
MOTA		OG1			91		68.718	42.808	34.342	1.00 42.30	0
MOTA	3975 3976	CG2			91		66.352	43.031	34.080	1.00 37.25	5
MOTA			ALA		92		65.366	40.503	32.264	1.00 30.88	8
ATOM	3977	N	ALA		92		64.316	40.319	31.262	1.00 28.63	2
MOTA	3978	CA			92		63.139	39.540	31.848	1.00 25.5	
MOTA	3979	C	ALA				63.032	39.348	33.062	1.00 26.0	
MOTA	3980	0	ALA		92 92	-	64.879	39.558	30.047	1.00 32.4	
MOTA	3981	CB	ALA				62.244	39.091	30.978	1.00 21.4	
MOTA	3982	N	VAI		93		61.143	38.295	31.452	1.00 22.2	
MOTA	3983	CA	VAI		93		61.312	36.873	30.929	1.00 23.9	
MOTA	3984	С	VAI		93		61.508	36.625	29.735	1.00 20.5	
MOTA	3985	0 .	VAI		93			38.853	31.050	1.00 16.6	
MOTA	3986	СВ	VAI		93		59.782	37.997	31.683	1.00 17.3	
MOTA	3987		L VAI		93		58.674	40.245	31.549	1.00 13.1	
MOTA	3988		Z VAI		93		59.659	35.946	31.867	1.00 20.9	
ATOM	3989	N	TYF		94		61.220		31.584	1.00 20.0	
MOTA	3990	CA	TYI		94		61.384	34.565 33.949	31.588	1.00 21.0	
MOTA	3991	C	TY		94		60.007	34.057	32.572	1.00 27.2	
MOTA	3992	0	TY		94		59.290	34.037	32.666	1.00 23.5	
MOTA	3993	CB	TY		94		62.281	34.552	32.500	1.00 28.2	
MOTA	3994	CG	TY		94		63.683	35.766	33.098	1.00 29.2	
MOTA	3995	CD:			94		64.073	33.700	31.663	1.00 26.2	
ATOM	3996	CD:		RH	94		64.595	36.321	32.856	1.00 24.1	
MOTA	3997	CE:		RH	94		65.330		31.420	1.00 23.2	
MOTA	3998	CE.		R H	94		65.841	34.448	32.016	1.00 25.8	
ATOM .	3999	CZ		R H	94		66.202	35.657	31.773	1.00 29.2	
MOTA	4000	OH		R H	94		67.439	36.204	30.471	1.00 23.2	
ATOM	4001	N		R H	95		59.647	33.323 32.679	30.471	1.00 14.4	
MOTA	4002	CA		RH	95		58.354		30.230	1.00 17.4	
MOTA	4003			R H			58.558	31.191		1.00 20.0	18
MOTA	4004			R H			59.598		29.920	1.00 15.0	15
ATOM	4005			R H			57.762		28.916	1.00 20.4	
MOTA	4006			R H			57.203		28.834	1.00 22.3	
MOTA	4007			R H			56.237		29.727	1.00 21.0	
MOTA	4008			R H			57.663		27.902	1.00 21.	
MOTA	4009	CE		R H			55.736		29.712	1.00 23.4	
ATOM	4010	CE		R H			57.157		27.881	1.00 21.7	
MOTA	4011	. CZ		R H			56.188		28.796	1.00 23.	
MOTA	4012	OH	TY	R H			55.609		28.802		
ATOM	4013	N	CY	S H	96		57.595			1.00 16.	
ATOM	4014	C.P	CY	S H	96		57.661			1.00 14.	
ATOM	4015	C	CY	s H	96		56.528			1.00 9.	
ATOM	4016	0	CY	S H	96		55.545				
ATOM	4017			S H			57.399				13
MOTA	4018			S H			55.673	3 28.205	32.823	1.00 19.	οŢ

							00 040	1.00 6.59
ATOM	4019	N	THR H	97	56.675	27.810	28.942	
MOTA	4020	CA	THR H	97	55.560	27.566	28.037	1.00 6.51
ATOM	4021	С	THR H	97	55.578	26.126	27.568	1.00 7.32
ATOM	4022	0	THR H	97	56.646	25.527	27.385	1.00 13.37
ATOM	4023	СВ	THR H	97	55.580	28.468	26.814	1.00 6.87
ATOM	4024		THR H	97	54.943	27.790	25.720	1.00 8.72
	4025	CG2		97	56.984	28.792	26.448	1.00 16.81
ATOM			ARG H	98	54.376	25.590	27.396	1.00 2.81
ATOM	4026	N		98	54.124	24.217	26.987	1.00 3.26
ATOM	4027	CA	ARG H		54.262	24.029	25.496	1.00 2.68
MOTA	4028	С	ARG H	98	53.585	24.623	24.715	1.00 2.02
ATOM	4029	0	ARG H	98				1.00 2.02
MOTA	4030	CB	ARG H	98	52.712	23.845	27.402	1.00 16.05
ATOM	4031	CG	ARG H	98	52.463	22.379	27.704	
MOTA	4032	CD	ARG H	98	51.499	21.820	26.681	1.00 22.59
ATOM	4033	NE	ARG H	98	50.140	21.639	27.178	1.00 19.96
ATOM	4034	CZ	ARG H	98	49.042	21.744	26.430	1.00 21.66
ATOM	4035	NH1	ARG H	98	49.109	22.035	25.126	1.00 12.83
ATOM	4036		ARG H	98	47.864	21.517	26.992	1.00 27.33
ATOM	4037	N	SER H	99	55.163	23.145	25.098	1.00 2.84
ATOM	4038	CA	SER H	99	55.361	22.910	23.679	1.00 7.76
	4039	C	SER H	99	54.411	21.804	23.322	1.00 9.54
ATOM				99	54.209	20.866	24.105	1.00 8.75
ATOM	4040	0	SER H		56.780	22.450	23.374	1.00 6.06
MOTA	4041	CB	SER H	99	56.805	21.031	23.391	1.00 16.80
ATOM	4042	OG	SER H	99		21.897	22.121	1.00 10.64
MOTA	4043	N	ASP H		53.865			1.00 13.15
MOTA	4044	CA	ASP H		52.898	20.923	21.652	
MOTA	4045	С	ASP H		53.604	20.027	20.628	
MOTA	4046	0	ASP H		53.612	20.285	19.403	1.00 11.66
ATOM	4047	CB	ASP H	100	51.708	21.680	21.047	1.00 18.52
ATOM	4048	CG	ASP H		50.681	20.755	20.407	1.00 20.57
MOTA	4049	OD1	ASP H	100	50.004	21.174	19.422	1.00 21.29
ATOM	4050	OD2	ASP H	100	50.564	19.609	20.900	1.00 12.20
ATOM	4051	N	GLY H	101	54.223	18.971	21.143	1.00 16.20
ATOM	4'052	CA	GLY H	101	54.979	18.069	20.281	1.00 18.19
MOTA	4053	С	GLY H		56.316	18.742	19.938	1.00 19.14
ATOM	4054	0	GLY H	101	56.951	18.481	18.919	1.00 22.29
ATOM	4055	N	ARG H		56.748	19.634	20.818	1.00 18.27
ATOM	4056	CA	ARG H		57.981	20.378	20.638	1.00 10.30
ATOM	4057	C	ARG H		57.992	21.118	19.335	1.00 7.64
MOTA	4058	Ö	ARG H		58.961	21.105	18.629	1.00 13.28
ATOM	4059	СВ	ARG H		59.188	19.453	20.750	1.00 9.62
	4060	CG	ARG H		59.390	18.933	22.182	1.00 10.87
MOTA	4061	CD	ARG H		60.280	17.677	22.276	1.00 7.11
ATOM			ARG H	102	61.675	18.086		1.00 8.08
ATOM	4062	NE	ARG H		62.438	17.966	21.138	1.00 8.91
ATOM	4063	CZ			61.921	17.438	20.029	1.00 2.00
ATOM	4064		1 ARG H		63.702	18.426	21.162	1.00 15.02
MOTA	4065		2 ARG H			21.761	19.011	1.00 9.08
MOTA	4066	N	ASN H		56.890		17.806	1.00 12.14
ATOM	-4067	CA			56.818	22.556		1.00 16.04
ATOM	4068	C	ASN H		56.154	23.877	18.120	
ATOM	4069	0	ASN H		56.860	24.838	18.447	1.00 26.49
ATOM	4070	CB			56.066	21.834	16.737	1.00 11.12
ATOM	4071	CG			56.902		16.096	1.00 12.92
ATOM	4072	OD	1 ASN H	103	56.826		16.466	1.00 14.62
MOTA	4073		2 ASN H		57.734		15.141	1.00 15.37
ATOM	4074	N	ASP H		54.830	23.961	18.012	1.00 10.79
ATOM	4075				54.164		18.355	
ATOM	4076		ASP H		54.236			
ATOM	4077		ASP H		54.059			1.00 15.06
ATOM	4078				52.705			
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3001	4070	cc	ASP H	104	52.035	23.870	18.382	1.00	12.59
MO,TA	4079	CG					19.311		12.60
MOTA	4080			104	51.219	23.890			
MOTA	4081	OD2		104	52.314	22.799	17.798		17.96
MOTA	4082	N		105	54.509	26.429	20.413		11.83
MOTA	4083	CA	MET H	105	54.551	26.567	21.870		11.87
ATOM	4084	С	MET H	105	53.174	27.164	22.250	1.00	8.41
ATOM	4085	0	MET H	105	52.996	28.406	22.240	1.00	4.53
ATOM	4086	СВ		105	55.703	27.490	22.267	1.00	12.71
ATOM	4087	CG		105	56.636	27.864	21.147	1.00	2.00
	4088	SD		105	58.247	28.196	21.850	1.00	2.00
MOTA				105	57.971	29.437	22.988	1.00	3.61
MOTA	4089	CE						1.00	6.59
MOTA	4090	N		106	52.230	26.270	22.602		
MOTA	4091	CA		106	50.822	26.654	22.869	1.00	8.38
MOTA	4092	С		106	50.274	27.207	24.189	1.00	6.59
MOTA	4093	Ο.	ASP H		49.100	27.545	24.227	1.00	3.39
MOTA	4094	CB	ASP H	106	49.859	25.560	22.409	1.00	2.00
ATOM	4095	CG	ASP H	106	49.893	24.384	23.290	1.00	2.00
ATOM	4096	OD1	ASP H	106	50.425	24.497	24.423	1.00	2.00
ATOM	4097			106	49.399	23.340	22.846	1.00	2.00
ATOM	4098	N	SER H		51.075	27.348	25.244	1.00	7.89
ATOM	4099	CA	SER H		50.562	27.978	26.482		14.18
				107	51.681	28.C24	27.283		14.81
MOTA	4100	С			52.718	28.014	27.205		24.80
MOTA	4101	0	SER H						14.59
MOTA	4102	CB		107	49.852	26.978	27.365		
MOTA	4103	OG	SER H		48.982	26.210	26.582		26.72
MOTA	4104	N	TRP H		51.488	29.833	27.778		10.64
MOTA	4105	CA	TRP H	108	52.585	30.470	28.496		10.67
MOTA	4106	С	TRP H	108	52.281	30.945	29.901	1.00	11.97
MOTA	4107	0	TRP H	108	51.178	31.378	30.192	1.00	22.87
MOTA	4108	CB	TRP H	108	53.060	31.673	27.704	1.00	10.90
MOTA	4109	CG	TRP H	108	53.476	31.383	26.290	1.00	9.87
ATOM	4110	CD1	TRP H	108	52.826	30.612	25.364	1.00	8.33
ATOM	4111	CD2			54.671	31.843	25.658	1.00	11.24
ATOM	4112	NE1		108	53.549	30.565	24.201	1.00	
ATOM	4113	CE2			54.689	31.307	24.362	1.00	
		CE3			55.737	32.656	26.071		11.51
ATOM	4114			108	55.719	31.553	23.478	1.00	
ATOM	4115	CZ2					25.182	1.00	
ATOM	4116	CZ3			56.764	32.899			
ATOM	4117	CH2			56.748	32.349	23.902	1.00	
MOTA	4118	N	GLY H		53.263		. 30.780	1.00	
ATOM	4119	CA	GLY H		53.034	31.391	32.118	1.00	
ATOM	4120	С	GLY H		52.949	32.896	31.969	1.00	
MOTA	4121	0	GLY H	109	53.125	33.392	30.845	1.00	
ATOM	4122	N	GLN H	110	52.642	33.598	33.074	1.00	8.33
ATOM	4123	CA	GLN H	110	52.551	35.066	33.088	1.00	
ATOM	4124	С	GLN H	110	53.842	35.674	32.616	1.00	10.53
ATOM	4125	0	GLN H	110	53.843	36.685	31.899	1.00	10.46
ATOM	4126	СВ	GLN H		52.313	35.611	34.494	1.00	3.46
ATOM	4127	CG	GLN H		51.541	34.701	35.353	1.00	13.07
ATOM	4128	CD	GLN H		52.395	33.947	36.310		15.22
	4129	OE1			53.223	34.525	37.014		17.43
ATOM					52.183	32.637	36.376		21.28
ATOM	4130	NE2					33.070		10.47
ATOM	4131	N	GLY H		54.936	35.056	32.763		15.47
MOTA	4132	CA	GLY H		56.280	35.518			
ATOM	4133	С	GLY H		56.932	35.958	34.070		19.09
MOTA	4134	0	GLY H		56.239	36.306	35.028		23.70
MOTA	4135	N	THR H		58.254	35.947	34.150		15.72
MOTA	4136	CA	THR H		58.861	36.351	35.386		14.74
MOTA	4137	С	THR H		59.880	37.362	35.056		15.34
ATOM	4138	0	THR H		60.717	37.156	34.194	1.00	14.21

ATOM	4139	CB	THR H 112	59.524	35.181	36.130	1.00 18,65
ATOM	4140	OG1	THR H 112 .	58.523	34.196	36.456	1.00 27.23
	4141	CG2	THR H 112	60.210	35.685	37.422	1.00 11.52
MOTA		_	LEU H 113	59.801	38.469	35.762	1.00 18.61
ATOM	4142	N		60.729	39.548	35.547	1.00 21.08
MOTA	4143	CA	LEU H 113	61.937	39.353	36.443	1.00 23.01
MOTA	4144	С	LEU H 113			37.664	1.00 30.63
ATOM	4145	0	LEU H 113	61.872	39.555		1.00 30.03
ATOM	4146	CB	LEU H 113	60.055	40.873	35.892	
ATOM	4147	CG	LEU H 113	60.557	42.182	35.281	1.00 21.09
ATOM	4148	CD1	LEU H 113	61.573	42.847	36.205	1.00 22.47
ATOM	4149		LEU H 113	61.158	41.901	33.941	1.00 24.66
ATOM	4150	N	VAL H 114	63.045	38.951	35.854	1.00 21.01
ATOM	4151	CA	VAL H 114	64.252	38.793	36.651	1.00 21.98
	4152	C	VAL H 114	65.092	40.043	36.342	1.00 21.04
MOTA		0	VAL H 114	65.524	40.282	35.211	1.00 21.38
MOTA	4153		VAL H 114	65.014	37.476	36.299	1.00 21.29
MOTA	4154	CB		66.516	37.676	36.473	1.00 20.35
ATOM	4155		VAL H 114		36.326	37.190	1.00 18.68
MOTA	4156		VAL H 114	64.519			1.00 19.54
ATOM	4157	N	THR H 115	65.284	40.882	37.336	
MOTA	4158	CA	THR H 115	66.048	42.093	37.096	1.00 21.61
MOTA	4159	С	THR H 115	67.248	42.043	37.981	1.00 23.48
ATOM	4160	0	THR H 115	67.122	42.085	39.198	1.00 24.68
ATOM	4161	CB	THR H 115	65.219	43.345	37.434	1.00 23.27
ATOM	4162	OG1	_	66.065	44.348	38.027	1.00 13.32
ATOM	4163	CG2		64.046	42.950	38.401	1.00 27.02
ATOM	4164	N	VAL H 116	68.420	41.988	37.369	1.00 27.45
	4165	CA	VAL H 116	69.645	41.885	38.136	1.00 30.42
ATOM		C	VAL H 116	70.481	43.145	38.075	1.00 32.51
ATOM	4166			71.039	43.489	37.020	1.00 29.68
ATOM	4167	0	VAL H 116	70.474	40.702	37.634	1.00 32.55
MOTA	4168	CB	VAL H 116	69.561	39.432	37.511	1.00 30.53
MOTA	4169	CG1				36.281	1.00 29.66
MOTA	4170	CG2		71.096	41.057		1.00 23.00
MOTA	4171	N	SER H 117	70.551	43.821	39.225	
MOTA	4172	CA	SER H 117	71.314	45.063	39.380	1.00 42.40
MOTA	4173	С	SER H 117	71.951	45.230	40.766	1.00 46.52
ATOM	4174	0	SER H 117	71.499	44.652	41.773	1.00 45.43
MOTA	4175	CB	SER H 117	70.434	46.283	39.121	1.00 42.92
ATOM	4176	OG	SER H 117	70.281	47.037	40.312	1.00 38.03
ATOM	4177	N	SER H 118	73.007	46.038	40.796	1.00 47.83
ATOM	4178	CA	SER H 118	73.744	46.314	42.020	1.00 48.69
ATOM	4179	C	SER H 118	73.002	47.331	42.869	1.00 50.17
ATOM	4180	ō	SER H 118	73.102	47.346	44.099	1.00 52.65
ATOM	4181	CB	SER H 118	75.127	46.845	41.662	1.00 45.84
	4182	OG		75.225	47.052	40.262	1.00 49.59
ATOM			ALA H 119	72.250	48.188	42.196	1.00 51.62
MOTA	4183	N		71.488	49.223	42.879	1.00 52.05
ATOM	4184	CA		70.727	48.618	44.026	1.00 51.09
MOTA	4185	С	ALA H 119		-	44.112	1.00 53.93
MOTA	4186	0	ALA H 119	70.596	47.401		1.00 56.98
ATOM	4187	СВ		70.509	49.877	41.910	1.00 50.34
MOTA	4188	N	SER H 120	70.202	49.468	44.895	
MOTA	4189	CA		69.434	48.983	46.030	1.00 51.08
MOTA	4190	С	SER H 120	68.248	49.868	46.254	1.00 48.22
ATOM	4191	0	SER H 120	68.370	51.087	46.180	1.00 44.34
ATOM	4192	СВ	SER H 120	70.289	48.955	47.281	1.00 56.08
MOTA	4193			71.565	48.431	46.962	1.00 67.62
MOTA	4194		THR H 121	67.107	49.232	46.519	1.00 48.94
MOTA	4195			65.836	49.918	46.738	1.00 47.95
MOTA	4196		THR H 121	66.059		47.145	1.00 48.67
ATOM	4197		THR H 121	67.015			1.00 52.27
	4198			64.997			
MOTA	4720	CD	THY II TOT	03.001	.,		

MOTA	4199	OG1	THR H	121	64.371	48.064	47.256	1.00 51.63
ATOM	4200	CG2	THR H		63.938	50.220	48.371	1.00 44.57
ATOM	4201	N	LYS H		65.189	52.237	46.663	1.00 45.53
ATOM	4202	CA	LYS H		65.316	53.643	46.974	1.00 42.91
		C		122	64.138	54.353	46.373	1.00 44.67
ATOM	4203				63.678	53.992	45.286	1.00 46.29
MOTA	4204	0		122	66.620	54.182	46.374	1.00 38.32
MOTA	4205	CB		122		55.391	45.499	1.00 39.69
MOTA	4206	CG		122	66.476			1.00 33.03
ATOM	4207	CD		122	67.555	56.391	45.818	
MOTA	4208	CE	LYS H		67.064	57.399	46.805	1.00 46.98
ATOM	4209	NZ	LYS H	122	65.912	58.206	46.296	1.00 45.85
MOTA	4210	N	GLY H	123	63.654	55.364	47.087	1.00 45.45
ATOM	4211	CA	GLY H		62.546	56 <i>.</i> 156	46.594	1.00 45.78
MOTA	4212	C	GLY H		62.993	57.066	45.451	1.00 47.24
ATOM	4213	ō	GLY H		64.193	57.260	45.220	1.00 43.22
	4214	N	PRO H		62.050	57.636	44.688	1.00 49.04
ATOM			PRO H		62.488	58.508	43.599	1.00 50.42
ATOM	4215	CA			62.637	59.930	44.100	1.00 49.92
MOTA	4216	С	PRO H			60.202	45.287	1.00 51.17
ATOM	4217	О	PRO H		62.486			1.00 50.28
MOTA	4218	CB	PRO H		61.357	58.409	42.588	
ATOM	4219	CG	PRO H		60.133	58.283	43.473	1.00 50.04
MOTA	4220	CD	PRO H		60.582	57.526	44.733	1.00 49.13
ATOM	4221	N	SER H	125	62.939	60.821	43.165	1.00 48.69
ATOM	4222	CA	SER H	125	63.083	62.241	43.420	1.00 43.43
ATOM	4223	С	SER H		62.059	62.786	42.444	1.00 38.72
ATOM	4224	Ō	SER H		61.841	62.231	41.364	1.00 38.11
ATOM	4225	СВ	SER H		64.487	62.729	43.047	1.00 47.11
ATOM	4226	OG	SER H		65.442	62.420	44.053	1.00 49.11
	4227	N	VAL H		61.396	63.853	42.837	1.00 34.23
MOTA			VAL H		60.370	64.423	41.992	1.00 31.13
ATOM	4228	CA	VAL H		60.721	65.853	41.700	1.00 30.78
ATOM	4229	С			61.170	66.562	42.585	1.00 35.06
MOTA	4230	0	VAL H			64.383	42.706	1.00 27.87
MOTA	4231	CB	VAL H		59.007		42.700	1.00 23.14
MOTA	4232	CG]			58.552	62.937		1.00 28.58
ATOM	4233	CG2			59.120	65.084	44.044	1.00 20.56
MOTA	4234	N	PHE H		60.498	66.295	40.473	
MOTA	4235	CA	PHE H		60.821	67.670	40.129	1.00 32.97
ATOM	4236	С	PHE H	127	59.759	68.315	39.252	1.00 34.78
ATOM	4237	0	PHE H	127	59.327	67.767	38.236	1.00 37.46
ATOM	4238	CB	PHE .H	127	62.194	67.700	39.501	1.00 28.87
ATOM	4239	CG	PHE H	127	63.240	67.140	40.399	1.00 25.22
AŤOM	4240	CD:			63.721	67.872	41.480	1.00 24.02
MOTA	4241		2 PHE H		63.725	65.866	40.193	1.00 22.87
ATOM	4242		1 PHE H		64.689	67.316	42.335	1.00 25.74
MOTA	4243		2 PHE H		64.677	65.321	41.040	1.00 19.70
	4244	CZ.	PHE H		65.160	66.041	42.103	1.00 19.75
ATOM		N	PRO H		59.320	69.507	39.634	1.00 34.23
MOTA	4245				58.298	70.044	38.762	1.00 35.13
ATOM	4246	CA			58.900	70.309	37.449	1.00 34.53
MOTA	4247	С		128.			37.377	1.00 34.17
MOTA	4248	0	PRO H		60.083	70.632		1.00 37.58
MOTA	4249	CB			57.886	71.334	39.443	1.00 37.38
MOTA	4250	CG			59.083	71.737	40.183	
MOTA	4251	CD			59.661	70.445	40.704	1.00 35.92
MOTA	4252	N	LEU F		58.083	70.105	36.425	1.00 33.61
ATOM	4253	CA	LEU F	f 129	58.438		35.053	1.00 36.05
ATOM	4254		LEU H	1 129	57.347	71.427	34.894	1.00 39.89
ATOM	4255		LEU I		56.300		34.309	
ATOM	4256				58.187		34.125	1.00 32.62
MOTA	4257				58.740	_	34.525	1.00 31.98
	4258				58.029			
MOTA	-2200	CD			30.023	,		

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ATOM	4259	CD2	LEU H 1.	29	60.230	67.787	34.311	1.00 25.75
ATOM	4260	N	ALA H 1	30	57.597	72.607	35.462	1.00 44.29
ATOM	4261	CA	ALA H 1		56.624	73.704	35.467	1.00 46.33
		C.	ALA H 1		56.363	74.462	34.169	1.00 46.24
MOTA	4262				57.278	74.753	33.382	1.00 47.97
MOTA	4263	0	ALA H 1					
MOTA	4264	CB	ALA H 1		56.981	74.709	36.561	1.00 45.39
ATOM	4265	N	PRO H 1	31	55.087	74.805	33.941	1.00 43.55
ATOM	4266	CA	PRO H 1	31	54.688	75.537	32.745	1.00 40.77
ATOM	4267	С	PRO H 1		55.471	76.839	32.674	1.00 40.25
			PRO H 1		55.932	77.381	33.685	1.00 40.73
ATOM	4268	0					32.936	1.00 37.52
ATOM	4269	CB	PRO H 1		53.180	75.754		
MOTA	4270	CG	PRO H 1		52.946	75.524	34.369	1.00 40.50
ATOM	4271	CD	PRO H 1	.31	53.937	74.513	34.810	1.00 41.32
ATOM	4272	N	SER H 1	.32	55.636	77.317	31.458	1.00 40.42
ATOM	4273	CA	SER H 1		56.351	78.548	31.215	1.00 43.10
		C	SER H 1		56.113	78.856	29.750	1.00 44.69
ATOM	4274							1.00 45.34
MOTA	4275	0	SER H 1		55.679	77.982	29.004	
MOTA	4276	CB	SER H 1	.32	57.832	78.334	31.447	1.00 42.95
MOTA	4277	OG	SER H 1	.32	58.398	77.840	30.255	1.00 44.71
ATOM	4278	N	SER H 1	.33	56.380	80.089	29.340	1.00 46.64
ATOM	4279	CA	SER H 1		56.195	80.475	27.944	1.00 49.02
ATOM	4280	C	SER H 1		56.861	79.409	27.091	1.00 48.65
								1.00 48.90
ATOM	4281	0	SER H 1		56.388	79.061	26.006	
MOTA	4282	CB	SER H 1		56.868	81.824	27.679	1.00 53.52
ATOM	4283	OG	SER H 1	.33	57.796	82.121	28.716	1.00 63.26
ATOM	4284	N	LYS H 1	.34	57.963	78.883	27.612	1.00 47.30
ATOM	4285	CA	LYS H 1		58.739	77.872	26.922	1.00 48.44
ATOM	4286	C	LYS H 1		58.048	76.516	26.851	1.00 48.61
			LYS H 1		58.563	75.574	26.237	1.00 49.68
ATOM	4287	0						
ATOM	4288	CB	LYS H 1		60.081	77.734	27.611	1.00 51.35
MOTA	4289	CG	LYS H 1	134	60.450	78.955	28.477	1.00 59.47
ATOM	4290	CD	LYS H 1	134	61.094	78.548	29.841	1.00 62.39
ATOM	4291	CE	LYS H 1	L34	61.038	79.669	30.888	1.00 60.24
ATOM	4292	NZ	LYS H 1		59.987	80.697	30.606	1.00 58.81
ATOM	4293	N	SER H 1		56.883	76.424	27.483	1.00 47.59
					56.091	75.197	27.481	1.00 47.32
ATOM	4294	CA	SER H 1					
MOTA	4295	С	SER H 1		54.610	75.495	27.265	1.00 42.54
MOTA	4296	0	SER H 1		53.750	74.800	27.793	1.00 42.85
MOTA	4297	CB	SER H 1		56.281	74.406	28.791	1.00 49.88
ATOM	4298	OG	SER H 1	L35	55.463	74.896	29.845	1.00 49.29
MOTA	4299	N	THR H 1		54.320	76.509	26.464	1.00 38.25
ATOM	4300	CA	THR H 1		52.943	76.892	26.211	1.00 38.67
ATOM	4301	C	THR H 1		52.605	77.125	24.737	1.00 39.13
					52.470	78.270	24.266	1.00 38.04
ATOM	4302	0	THR H]					
MOTA	4303	CB	THR H 1		52.594	78.157	27.003	1.00 39.27
MOTA	4304	OG1	THR H]	136	52.747	77.898	28.404	1.00 39.36
ATOM	4305	CG2	THR H]	136	51.159	78.582	26.724	1.00 42.81
ATOM	4306	N	SER H 1		52.462	76.031	24.007	1.00 38.15
ATOM	4307	CA	SER H		52.112	76.135	22.611	1.00 37.95
					50.646	76.540	22.518	1.00 38.29
MOTA	4308	C	SER H I					
ATOM	4309	0	SER H 1		49.797	76.006	23.220	1.00 39.72
MOTA	4310	CB	SER H 1	137	52.346	74.795	21.930	1.00 38.29
ATOM	4311	OG	SER H 1	137	53.740	74.562	21.840	1.00 39.76
ATOM	4312	N	GLY H	138	50.342	77.507	21.668	1.00 41.65
ATOM	4313	CA	GLY H		48.961	77.949	21.526	1.00 41.71
ATOM	4314	C	GLY H		48.269	78.232	22.850	1.00 43.93
					48.898	78.632	23.834	1.00 44.44
ATOM	4315	0	GLY H					
ATOM	4316	N	GLY H		46.958	78.023	22.880	1.00 45.84
MOTA	4317	CA	GLY H		46.216	78.259	24.099	1.00 46.19
MOTA	4318	С	GLY H	139	46.519	77.233	25.183	1.00 46.74

ATOM	4319	0	GLY H 139	46.060	77.391	26.319	1.00 50.88
ATOM	4320	N	THR H 140	47.308	76.205	24.861	1.00 40.88
ATOM	4321	CA	THR H 140	47.621	75.152	25.830	1.00 35.31
ATOM	4322	С	THR H 140	49.001	75.142	26.487	1.00 32.19
ATOM	4323	ō	THR H 140	50.009	75.453	25.882	1.00 30.78
ATOM	4324	СВ	THR H 140	47.473	73.803	25.205	1.00 35.27
				48.747	73.148	25.232	1.00 32.31
MOTA	4325	OG1		47.027	73.939	23.769	1.00 36.22
MOTA	4326	CG2		49.043	74.722	27.735	1.00 31.37
MOTA	4327	N	ALA H 141		74.675	28.459	1.00 32.08
ATOM	4328	CA	ALA H 141	50.298		28.848	1.00 32.24
MOTA	4329	С	ALA H 141	50.667	73.233	_	1.00 36.52
MOTA	4330	0	ALA H 141	49.811	72.401	29.161	
MOTA	4331	CB	ALA H 141	50.192	75.575	29.710	1.00 34.57
MOTA	4332	N	ALA H 142	51.947	72.923	28.830	1.00 27.82
MOTA	4333	CA	ALA H 142	52.350	71.578	29.180	1.00 22.66
ATOM	4334	С	ALA H 142	52.984	71.659	30.535	1.00 20.65
ATOM	4335	ō	ALA H 142	53.602	72.665	30.859	1.00 25.04
ATOM	4336	СВ	ALA H 142'	53.345	71.075	28.168	1.00 26.95
	4337	И	LEU H 143	52.833	70.621	31.338	1.00 14.14
MOTA			LEU H 143	53.444	70.630	32.654	1.00 18.30
ATOM	4338	CA	LEU H 143	53.411	69.219	33.214	1.00 21.54
MOTA	4339	C		52.551	68.426	32.824	1.00 19.22
MOTA	4340	0	LEU H 143			33.592	1.00 20.54
MOTA	4341	CB	LEU H 143	52.729	71.653		1.00 22.85
MOTA	4342	CG	LEU H 143	51.723	71.440	34.775	1.00 22.03
MOTA	4343	CD1		50.347	71.889	34.365	
MOTA	4344	CD2		51.606	69.978	35.224	1.00 29.59
ATOM	4345	N	GLY H 144	54.329	68.913	34.139	1.00 24.94
ATOM	4346	CA	GLY H 144	54.377	67.579	34.724	1.00 27.73
ATOM	4347	С	GLY H 144	55.516	67.343	35.713	1.00 30.97
ATOM	4348	0	GLY H 144	56.313	68.250	36.010	1.00 34.73
ATOM	4349	N	CYS H 145	55.598	66.125	36.243	1.00 28.93
ATOM	4350	CA	CYS H 145	56.658	65.792	37.188	1.00 27.84
ATOM	4351	C	CYS H 145	57.776	64.865	36.704	1.00 25.82
	4352	ō	CYS H 145	57.562	63.923	35.927	1.00 26.40
MOTA	4353	CB	CYS H 145	56.048	65.188	38.430	1.00 30.17
MOTA	4354	SG	CYS H 145	55.062	66.358	39.390	1.00 38.46
MOTA	4355	N	LEU H 146	58.982	65.139	37.186	1.00 22.56
ATOM			LEU H 146	60.124	64.316	36.830	1.00 22.80
ATOM	4356	CA		60.465	63.471	38.037	1.00 24.65
MOTA	4357	С	LEU H 146	61.024	63.953	39.016	1.00 24.83
MOTA	4358	0	LEU H 146		65.152	36:432	1.00 17.66
MOTA	4359	CB	LEU H 146	61.348	64.377	36.411	1.00 7.54
MOTA	4360	CG	LEU H 146	62.673			1.00 4.46
MOTA	4361		1 LEU H 146	62.465	62.994	35.869	1.00 14.61
MOTA	4362	CD	2 LEU H 146	63.659	65.087	35.518	
MOTA	4363	N	VAL H 147	60.135	62.192	37.938	1.00 26.94
MOTA	4364	CA	VAL H 147	60.390	61.235	39.006	1.00 26.97
MOTA	4365	С	VAL H 147	61.784	60.578	38.794	1.00 32.34
MOTA	4366	0	VAL H 147	61.933	59.538	38.129	1.00 32.62
ATOM	4367	СВ	VAL H 147	59.251	60.201	38.996	1.00 26.76
ATOM	4368	CG	1 VAL H 147	59.324	59.286	40.222	1.00 27.87
ATOM	4369		2 VAL H 147	57.922	60.930	38.940	1.00 16.07
ATOM	4370		LYS H 148	62.808	61.210	39.361	1.00 36.73
MOTA	4371			64.187	60.760	39.214	1.00 40.79
ATOM	4371		LYS H 148	64.799	59.776	40.219	1.00 44.36
			LYS H 148	64.455		41.398	1.00 44.75
MOTA	4373			65.084			1.00 37.72
ATOM	4374			65.661		37.734	1.00 45.08
ATOM	4375						1.00 44.32
ATOM	4376			66.955			
MOTA	4377			68.126			
MOTA	4378	NZ	LYS H 148	68.720	62.575	38.815	1.00 10.00

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ATOM	4379	N A	ASP H	149	65.732	58.961	39.717	1.00 47.86	
ATOM	4380	CA Z	ASP H	149	66.485	57.949	40.479	1.00 46.65	
MOTA	4381	c i	ASP H	149	65.796	57.209	41.611	1.00 48.79	
ATOM	4382		ASP H		65.767	57.666	42.755	1.00 50.03	
ATOM	4383		ASP H		67.759	58.582	41.003	1.00 44.69	
ATOM	4384		ASP H		68.233	59.715	40.111	1.00 48.72	
ATOM	4385		ASP H		68.434	59.470	38.902	1.00 52.72	
	4386	OD2	ASP H	149	68.394	60.853	40.597	1.00 47.28	
MOTA	4387	N	TYR H	150	65.231	56.062	41.273	1.00 48.58	
MOTA			TYR H		64.572	55.226	42.253	1.00 48.92	
ATOM	4388		TYR H		64.851	53.829	41.750	1.00 49.77	
ATOM	4389		TYR H		65.353	53.669	40.632	1.00 52.37	
ATOM	4390				63.070	55.497	42.281	1.00 50.43	
MOTA	4391		TYR H		62.375	55.283	40.948	1.00 55.99	
MOTA	4392	CG	TYR H		61.319	54.371	40.835	1.00 55.30	
MOTA	4393		TYR H		62.770	55.999	39.798	1.00 55.47	
MOTA	4394		TYR H			54.174	39.618	1.00 57.64	
MOTA	4395		TYR H		60.675		38.567	1.00 54.43	
MOTA	4396	CE2	TYR H	150	62.128	55.811		1.00 56.31	
MOTA	4397	CZ	TYR H		61.082	54.894	38.484	1.00 53.90	
MOTA	4398	OH	TYR H		60.441	54.677	37.281	1.00 49.25	
MOTA	4399	N	PHE H		64.493	52.823	42.544	1.00 46.95	
ATOM	4400	CA	PHE H		64.745	51.431	42.179		
ATOM	4401	С	PHE H	1 151	64.068	50.465	43.140	1.00 44.06	
ATOM	4402	0	PHE H	H 151	64.117	50.662	44.340	1.00 43.34	
ATOM	4403	CB	PHE F		66.249	51.187	42.184	1.00 45.37	
ATOM	4404	CG	PHE F		66.643	49.800	41.811	1.00 45.19	
MOTA	4405	CD1			66.203	48.705	42.557	1.00 44.43	
ATOM	4406	CD2			67.521	49.591	40.756	1.00 46.93	
ATOM	4407		PHE I		66.636	47.414	42.266	1.00 45.47	
	4408	CE2		1 151	67.968	48.315	40.448	1.00 48.24	
MOTA	4409	CZ		H 151	67.526	47.214	41.209	1.00 48.41	
MOTA	4410	N		н 152	63.412	49.409	42.625	1.00 42.92	
MOTA		CA		н 152	63.221	48.996	41.228	1.00 44.49	
ATOM	4411			H 152	61.889	49.538	40.766	1.00 44.25	
MOTA	4412	C		H 152	61.204	50.216	41.530	1.00 46.46	
MOTA	4413	0		H 152	63.149	47.492	41.329	1.00 45.87	
MOTA	4414	CB		H 152	62.342	47.315	42.595	1.00 43.03	
MOTA	4415	CG			62.786	48.440	43.537	1.00 40.62	
MOTA	4416	CD	PRO		61.493		39.538	1.00 43.87	
MOTA	4417	N		H 153	60.196		39.075	1.00 40.51	
MOTA	4418	CA		н 153	59.233	_	40.036	1.00 36.12	
MOTA	4419	С		н 153			40.792	1.00 38.59	
MOTA	4420			Н 153	59.633		37.624	1.00 42.13	
MOTA	4421			н 153	59.920		36.559	1.00 48.08	
MOTA	4422		GLU	н 153	60.656		35.630	1.00 56.10	
MOTA	4423			Н 153	59.715			1.00 60.33	
MOTA	4424	OE1		н 153	59.826	50.686	34.394	1.00 55.43	
MOTA	4425	OE2		н 153	58.870				
ATOM	4426	N		Н 154	57.981			1.00 30.30	
ATOM	4427	CA		н 154	57.380				
ATOM	4428		PRO	н 154	57.106				
MOTA	4429	0	PRO	н 154	56.971				
ATOM	4430		PRO	н 154	56.090	_			
ATOM	4433			н 154	55.726				
ATOM	4432			н 154	56.950				
ATOM	4433			н 155	57.043				
ATOM	4434		VAL	Н 155	56.736				
	4435		VAT.	н 155	55.46	_			
ATOM			VΛ1.	н 155	55.459			1.00 44.6	
ATOM	4436		7/2.T	н 155 н 155	57.71			1.00 41.8	
MOTA	443	7 CB	VAL	н 155 н 155	58.02				
MOTA	4431	o CG	ı ΛΥΓ	11 100	20.02				

									0.679	1	.00	17.	30
MOTA	4439	CG2 V	AL H	155	57.		56.52		0.536	1	.00	39.	94
ATOM	4440	N T	HR H	156	54.		54.41	"	9.945	. 1	.00	40.	14
MOTA	4441	CA T	HR H	156	53.		54.82	-	-		.00	30. 37	73
ATOM	4442	c I	HR H	156	52.		56.32		0.125		.00		
ATOM	4443	0 7	HR H	156	53.		56.88		1.126		.00	43.	10
ATOM	4444	CB T	HR H	156	51.		54.0		0.574		.00		
MOTA	4445	og1 T	CHR H	156		705	54.4		9.968		.00		
ATOM	4446		CHR H			934	54.2		12.099		.00	38 37.	39
ATOM	4447	N V	JAL H	157		394	56.9		39.123		00	٥0. 11	85
ATOM	4448	CA Y	VAL H	157		220	58.4		39.160		1.00	43	90
ATOM	4449	C 1	VAL H	157		805	58.8		38.81		1.00	45.	23
MOTA	4450	0 '	VAL H	157		285	58.4	_	37.76	, ,	1.00	40.	กร
ATOM	4451	CB '	VAL H	157		133	59.1		38.14		1.00	40	18
ATOM	4452	CG1	VAL H	157		883	60.6		38.18		1.00	15	88
ATOM	4453	CG2	VAL H	157		596	58.7		38.42		1.00	45	43
ATOM	4454	N	SER H	158		190	59.6		39.67		1.00		
ATOM	4455	CA	SER H	158		837	60.1		39.41		1.00		
ATOM	4456	С	SER H	158		.716	61.6		39.62		1.00	44	96
ATOM	4457	0	SER H	158		. 474	62.1		40.39		1.00	16	06
MOTA	4458	СВ	SER H	158		.837	59.4		40.31		1.00	40	.00
MOTA	4459	OG	SER H	158		.921	60.3		40.79		1.00		
ATOM	4460	N	TRP H	159		.736	62.1		38.94				.77
ATOM	4461	CA	TRP H	159		.486	63.6		39.04		1.00		
ATOM	4462	С	TRP H			.215	64.0		39.80		1.00 1.00	41	26
ATOM	4463	0	TRP H			.135	63.4		39.64		1.00	40	27
ATOM	4464	СВ	TRP F	159		.441	64.2		37.66		1.00	4.0	1.37
ATOM	4465	CG	TRP F			.755	64.		37.08		1.00	20	77
ATOM	4466	CD1	TRP F	i 159		.319	63.		36.33		1.00	40	1.77
ATOM	4467	CD2	TRP F	1 159		.705	65.		37.18		1.00	20	1.33
ATOM	4468	NE1	TRP F	ł 159		.566	63.		35.92		1.00	25	5.40
MOTA	4469	CE2	TRP I	1 159		.828	64.		36.44		1.00	11	1 15
MOTA	4470	CE3		H 159		r.707		563	37.83		1.00	1	2 04
ATOM	4471	CZ2	TRP	н 159		.959		751	36.3		1.00	41	2 87
ATOM	4472	CZ3		н 159		.832		375	37.73 36.9		1.00	1 4	4.26
MOTA	4473	CH2		н 159		.942		964	40.5		1.00		
MOTA	4474	N		н 160		3.350		081	41.4				8.97
MOTA	4475	CA		н 160		.256		581	41.9		1.00	5	1.35
MOTA	4476	С		н 160		1.481		377	41.6		1.00) 4	9.63
MOTA	4477	0		н 160		3.294		.178 .490	40.6		1.00) 4	5.16
MOTA	4478	CB		н 160		4.362		846	40.3		1.0) 4	2.58
MOTA	4479	CG		н 160		4.993		.189	40.9				6.48
MOTA	4480) OD1	ASN	н 160		6.045		.629	39.4				2.64
MOTA	4481		ASN	н 160		4.354		.550	42.6				3.42
MOTA	4482		SER	н 161		5.211 4.666		.339	43.2		1.0	0 5	4.13
MOTA	4483		SER	н 161		3.469		.857	42.4		1.0	0 5	4.04
MOTA	4484		SER	н 161		2.338		.901	42.9		1.0	0 5	4.97
MOTA	448			н 161		4.278		.571	44.				3.09
MOTA	4486			H 161		5.090		.586	45.2				6.86
MOTA	448		SER	н 161		3.726		.462	41.3				3.55
MOTA	448			H 162		2.684		.907	40.3		1.0	0 5	1.76
MOTA	448			н 162		1.91		.831	39.4				51.28
MOTA	449			н 162		1.87		.605	38.				52.04
MOTA				Н 162		1.29		.856	40.		1.0	0 5	52.59
MOTA				H 163		0.49		.802	39.		1.0	0 5	52.95
ATOM				Н 163		11.07		.120	37.		1.0	0 !	53.49
ATOM			ALA			10.35		.121	36.		1.0	0 !	56.32
MOTA				H 163		10.33		.088	40.	032	1.0	00	53.34
MOTA				H 163		12.37		1.407		866	1.0	0	50.28
ATOM				Н 164 Н 164		43.04		.728		614	1.0	00	45.33
MOTA	449	8 CA	. ኮሮሀ	п 104	•								

ATOM	4499	С	LEU H	164	43.566	63.477	35.900	1.00 43.24
ATOM	4500	0	LEU H	164	44.549	62.860	36.314	1.00 37.30
ATOM	4501	СВ	LEU H		44.173	65.738	36.854	1.00 41.35
ATOM	4502	CG	LEU H		44.574	66.520	35.594	1.00 39.11
	4503	CD1	LEU H		43.318	67.107	34.869	1.00 35.69
MOTA						67.584	36.001	1.00 33.96
ATOM	4504	CD2	LEU H		45.605			
MOTA	4505	N	THR H		42.890	63.100	34.820	1.00 43.96
MOTA	4506	CA	THR H		43.291	61.924	34.056	1.00 48.01
ATOM	4507	С	THR H	165	43.174	62.199	32.569	1.00 48.89
MOTA	4508	0	THR H	165	43.143	61.280	31.746	1.00 49.91
MOTA	4509	CB	THR H	165	42.401	60.726	34.343	1.00 48.56
ATOM	4510	OG1	THR H	165	41.056	61.180	34.522	1.00 51.38
ATOM	4511	CG2	THR H	165	42.892	59.972	35.578	1.00 51.09
ATOM	4512	N	SER H		43.075	63.468	32.219	1.00 48.74
ATOM	4513	CA	SER H		42.968	63.806	30.821	1.00 48.21
		C	SER H		44.183	64.590	30.407	1.00 46.13
ATOM	4514				44.542	65.586	31.039	1.00 45.59
MOTA	4515	0		166				
MOTA	4516	CB	SER H		41.710	64.638	30.554	1.00 53.12
MOTA	4517	OG	SER H		41.628	65.028	29.188	1.00 58.13
ATOM	4518	N	GLY H		44.801	64.137	29.328	1.00 43.93
ATOM	4519	CA	GLY H		45.968	64.826	28.824	1.00 40.76
MOTA	4520	С	GLY H	167	47.235	64.354	29.484	1.00 34.87
ATOM	4521	0	GLY H	167	48.333	64.811	29.169	1.00 36.84
MOTA	4522	N	VAL H	168	47.081	63.455	30.430	1.00 28.48
ATOM	4523	CA	VAL H		48.241	62.924	31.096	1.00 28.20
ATOM	4524	С	VAL H		48.864	61.920	30.155	1.00 27.98
ATOM	4525	Ō	VAL H		48.143	61.197	29.463	1.00 27.44
ATOM	4526	СВ	VAL H		47.857	62.166	32.340	1.00 30.95
ATOM	4527	CG1	VAL H		49.102	61.811	33.128	1.00 30.62
ATOM	4528	CG2			46.867	62.984	33.144	1.00 35.52
					50.197	61.905	30.134	1.00 33.32
ATOM	4529	N	HIS H					
ATOM	4530	CA	HIS H		51.024	60.998	29.325	1.00 25.44
MOTA	4531	С	HÍS H		52.150	60.717	30.322	1.00 27.36
MOTA	4532	0	HIS H		53.074	61.540	30.488	1.00 27.92
ATOM	4533	CB	HIS H		51.674	61.688	28.101	1.00 19.94
ATOM	4534	CG	HIS H		50.720	62.234	27.085	1.00 19.95
ATOM	4535		HIS H		49.965	61.426	26.263	1.00 22.27
MOTA	4536	CD2	HIS H	169	50.435	63.509	26.714	1.00 28.95
MOTA	4537	CE1	HIS H	169	49.259	62.185	25.430	1.00 29.79
ATOM	4538	NE2	HIS H	169	49.526	63.455	25.683	1.00 21.26
MOTA	4539	N	THR H	170	52.055	59.616	31.052	1.00 27.55
ATOM	4540	CA	THR H	170	53.142	59.315	31.978	1.00 26.64
ATOM	4541	С	THR H	170	54.025	58.255	31.303	1.00 27.35
ATOM	4542	0	THR H	170	53.648	57.081	31.165	1.00 23.68
ATOM	4543	CB	THR H		52.630	58.824	33.348	1.00 23.93
ATOM	4544	OG1			53.584	57.920	33.913	1.00 18.06
ATOM	4545	CG2			51.265	58.146	33.211	1.00 28.88
ATOM	4546	N	PHE H		55.213	58.700	30.891	1.00 27.04
	4547	CA	PHE H		56.171	57.870	30.174	1.00 21.61
MOTA			PHE H		56.697	56.611	30.825	1.00 21.96
ATOM	4548.							1.00 27.49
ATOM	4549	0	PHE H		56.633	56.423	32.034	
ATOM	4550	CB	PHE H		57.349	58.724	29.766	1.00 17.66
ATOM	4551	CG	PHE H		56.985	59.808	28.846	1.00 10.40
ATOM	4552	CD1			56.523	61.005	29.333	1.00 11.08
ATOM	4553	CD2			57.055	59.615	27.494	1.00 10.27
ATOM	4554	CE1	PHE H	171	56.121	62.004	28.472	1.00 19.79
ATOM	4555	CE2	PHE H	171	56.658	60.603	26.623	1.00 17.65
ATOM	4556	CZ	PHE H	171	56.187	61.802	27.106	1.00 18.77
ATOM	4557	И	PRO H		57.196	55.693	30.009	1.00 20.48
ATOM	4558	CA	PRO H		57.747	54.445	30.519	1.00 21.91
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ATOM 4559 C PRO H 172 59.068 54.775 31.159 1.00 23.02 ATOM 4561 CB PRO H 172 59.721 55.739 30.762 1.00 22.17 ATOM 4562 CG PRO H 172 57.225 55.738 28.240 1.00 19.41 ATOM 4563 CD PRO H 172 57.225 55.738 28.247 1.00 19.41 ATOM 4564 N ALA H 173 59.444 53.996 32.168 1.00 28.53 ATOM 4565 CA ALA H 173 60.713 54.198 32.858 1.00 31.04 ATOM 4566 C ALA H 173 60.713 54.198 32.858 1.00 31.04 ATOM 4567 O ALA H 173 61.782 53.079 31.051 1.00 35.99 ATOM 4568 CB ALA H 173 61.782 53.079 31.051 1.00 35.99 ATOM 4567 O ALA H 174 62.997 54.563 32.211 1.00 35.99 ATOM 4567 O ALA H 174 62.997 54.563 32.211 1.00 35.99 ATOM 4571 C VAL H 174 62.997 54.563 32.211 1.00 35.99 ATOM 4571 C VAL H 174 65.680 55.363 32.966 1.00 36.14 ATOM 4573 CB VAL H 174 65.680 55.363 32.966 1.00 36.14 ATOM 4573 CB VAL H 174 65.868 55.363 32.996 1.00 38.06 ATOM 4576 CG VAL H 174 65.868 55.322 39.977 1.00 38.96 ATOM 4576 CB VAL H 174 65.868 55.322 39.977 1.00 38.96 ATOM 4578 CC LEU H 175 66.995 53.868 33.299 1.00 37.88 ATOM 4578 C LEU H 175 66.995 53.863 33.299 1.00 37.88 ATOM 4581 C LEU H 175 66.995 53.863 33.299 1.00 37.88 ATOM 4581 C LEU H 175 66.995 53.863 33.299 1.00 37.88 ATOM 4581 C LEU H 175 66.995 53.863 33.299 1.00 37.88 ATOM 4581 C LEU H 175 66.995 53.863 33.299 1.00 37.88 ATOM 4581 C LEU H 175 66.995 53.863 33.291 1.00 40.50 ATOM 4581 C C LEU H 175 66.995 53.863 33.291 1.00 40.50 ATOM 4581 C C LEU H 175 68.292 53.868 33.291 1.00 40.50 ATOM 4581 C C LEU H 175 68.292 53.868 33.291 1.00 40.50 ATOM 4580 C C C C C C C C C C C C C C C C C C C							150	1 00 03 03
ATOM 4561 OB PRO H 172 59.721 55.739 30.762 1.00 22.17 ATOM 4561 CB PRO H 172 57.927 53.606 29.275 1.00 19.80 ATOM 4562 CG PRO H 172 58.069 54.556 28.200 1.00 17.91 ATOM 4563 N ALA H 173 57.222 55.738 28.647 1.00 19.40 ATOM 4564 N ALA H 173 59.444 53.996 32.168 1.00 28.53 ATOM 4565 CA ALA H 173 61.81 53.905 31.941 1.00 34.04 ATOM 4566 C ALA H 173 61.81 53.905 31.941 1.00 34.04 ATOM 4567 O ALA H 174 60.801 53.285 31.941 1.00 31.07 ATOM 4568 CB ALA H 173 60.801 53.285 31.941 1.00 31.27 ATOM 4569 N VAL H 174 62.997 54.563 32.211 1.00 32.51 ATOM 4569 N VAL H 174 64.168 54.322 31.422 1.00 33.97 ATOM 4570 CA VAL H 174 65.680 55.363 32.211 1.00 32.51 ATOM 4571 C VAL H 174 65.680 55.363 32.296 1.00 36.15 ATOM 4573 CB VAL H 174 65.680 55.363 32.966 1.00 36.15 ATOM 4573 CB VAL H 174 65.680 55.363 32.966 1.00 36.15 ATOM 4576 N LEU H 175 65.991 53.186 32.463 1.00 38.70 ATOM 4577 CA LEU H 175 67.163 52.994 33.299 1.00 37.88 ATOM 4578 C LEU H 175 67.163 52.994 33.299 1.00 37.88 ATOM 4580 CB LEU H 175 68.292 53.868 32.241 1.00 40.50 ATOM 4581 CG LEU H 175 68.292 53.868 32.221 1.00 40.50 ATOM 4581 CG LEU H 175 68.495 55.502 33.1867 1.00 31.67 ATOM 4580 CB LEU H 175 68.292 53.868 32.221 1.00 40.50 ATOM 4581 CG LEU H 175 68.292 53.868 32.221 1.00 40.50 ATOM 4581 CG LEU H 175 68.292 53.868 32.221 1.00 40.50 ATOM 4580 CG LEU H 175 68.292 53.868 32.221 1.00 40.50 ATOM 4580 CG LEU H 175 68.292 53.868 32.221 1.00 40.50 ATOM 4580 CG LEU H 175 68.292 53.868 32.221 1.00 40.50 ATOM 4580 CG LEU H 175 68.292 53.868 32.291 1.00 41.23 ATOM 4580 CG LEU H 176 68.295 59.295 35.290 1.00 41.23 ATOM 4580 CG LEU H 176 68.295 59.295 35.290 1.00 41.23 ATOM 4580 CG LEU H 176 68.295 59.295 35.290 1.00 41.23 ATOM 4590 CD GLN H 176 69.544 55.870 33.028 1.00 42.45 ATOM 4591 CG LEU H 176 68.295 59.295 35.290 1.00 44.55 ATOM 4590 CD GLN H 176 69.547 57.072 35.226 1.00 42.63 ATOM 4591 CG LEU H 180 69.575 59.295 35.290 1.00 44.81 ATOM 4596 C GLN H 176 69.547 57.223 35.525 1.00 42.63 ATOM 4590 CD GLN H 176 69.547 57.223 37.591 1.00 47.43 ATOM 4501 C CE SER H 1	MOTA	4559	С	PRO H 172	59.068			
ATOM 4561 CB PRO H 172 53.606 29.275 1.00 19.80 ATOM 4562 CG PRO H 172 58.069 54.556 28.200 1.00 17.91 ATOM 4563 CD PRO H 172 58.069 54.556 28.200 1.00 17.91 ATOM 4564 N ALA H 173 59.44 53.996 32.168 1.00 28.53 ATOM 4565 CA ALA H 173 60.713 54.198 32.858 1.00 38.59 ATOM 4566 C ALA H 173 61.782 53.079 31.015 1.00 35.99 ATOM 4566 CB ALA H 173 61.782 53.079 31.015 1.00 35.99 ATOM 4569 N VAL H 174 62.997 54.563 32.211 1.00 32.51 ATOM 4570 CA VAL H 174 62.997 54.563 32.211 1.00 32.51 ATOM 4571 C VAL H 174 65.357 54.345 32.356 1.00 36.15 ATOM 4572 O VAL H 174 65.357 54.345 32.356 1.00 36.15 ATOM 4573 CB VAL H 174 65.360 55.363 32.996 1.00 33.95 ATOM 4573 CB VAL H 174 65.360 55.363 32.996 1.00 33.95 ATOM 4575 CC2 VAL H 174 65.357 54.345 32.356 1.00 33.95 ATOM 4576 N LEU H 175 65.991 53.186 34.322 31.00 33.95 ATOM 4576 N LEU H 175 66.292 53.868 32.991 1.00 33.92 ATOM 4578 C LEU H 175 66.292 53.868 32.991 1.00 33.92 ATOM 4578 C LEU H 175 66.991 53.136 32.461 1.00 43.15 ATOM 4578 C LEU H 175 66.991 53.136 32.461 1.00 33.07 ATOM 4578 C LEU H 175 66.991 53.136 32.461 1.00 36.04 ATOM 4578 C LEU H 175 66.991 53.136 32.461 1.00 37.88 ATOM 4590 O LEU H 175 68.292 53.868 32.891 1.00 40.03 ATOM 4591 O LEU H 175 68.292 53.868 32.891 1.00 40.03 ATOM 4591 O LEU H 175 68.292 53.868 32.891 1.00 40.03 ATOM 4590 CD LEU H 175 68.292 53.868 32.891 1.00 40.03 ATOM 4590 CD LEU H 175 68.292 53.868 32.891 1.00 40.03 ATOM 4590 CD LEU H 175 68.292 53.868 32.891 1.00 40.03 ATOM 4590 CD LEU H 175 68.296 33.530 31.867 1.00 33.65 ATOM 4590 CD LEU H 175 68.296 33.530 31.867 1.00 33.65 ATOM 4590 CD GIN H 176 69.471 57.219 33.338 1.00 42.45 ATOM 4590 CD GIN H 176 69.471 57.219 33.338 1.00 42.45 ATOM 4590 CD GIN H 176 69.471 57.219 33.338 1.00 42.45 ATOM 4590 CD GIN H 176 69.471 57.219 33.338 1.00 42.45 ATOM 4590 CD GIN H 176 69.471 57.219 33.338 1.00 42.45 ATOM 4591 CD GIN H 176 69.471 57.219 33.338 1.00 42.45 ATOM 4591 CD GIN H 176 69.471 57.219 33.338 1.00 42.45 ATOM 4590 CD GIN H 176 69.471 57.219 33.338 1.00 42.45 ATOM 4591 CD GIN H 176 69.471 79					59.721	55.739	30.762	
ATOM 4562 CG PRO H 172 57.222 55.738 28.547 1.00 17.91 ATOM 4563 CD PRO H 172 57.222 55.738 28.547 1.00 19.41 ATOM 4564 N ALAH H 173 59.444 53.996 32.168 1.00 28.53 ATOM 4565 CA ALAH H 173 61.881 53.905 31.941 1.00 34.04 ATOM 4566 C ALAH H 173 61.881 53.905 31.941 1.00 34.04 ATOM 4567 O ALAH H 173 61.881 53.905 31.941 1.00 34.04 ATOM 4568 CB ALAH H 173 60.801 53.285 34.058 1.00 31.27 ATOM 4569 N VAL H 174 62.997 54.563 32.211 1.00 35.99 ATOM 4569 N VAL H 174 65.961 53.285 34.058 1.00 31.27 ATOM 4571 C VAL H 174 65.660 53.57 54.563 32.211 1.00 32.51 ATOM 4571 C VAL H 174 65.660 53.57 54.563 32.211 1.00 32.51 ATOM 4573 CB VAL H 174 64.168 54.322 31.422 11.00 33.95 ATOM 4573 CB VAL H 174 65.660 55.363 32.966 1.00 36.14 ATOM 4573 CB VAL H 174 65.660 55.363 32.966 1.00 35.70 ATOM 4576 N LEU H 175 65.660 55.522 29.977 1.00 38.95 ATOM 4576 N LEU H 175 67.163 52.984 33.299 1.00 37.80 ATOM 4578 C LEU H 175 66.991 53.186 32.463 1.00 39.20 ATOM 4578 C LEU H 175 67.163 52.984 33.299 1.00 37.80 ATOM 4579 O LEU H 175 68.292 53.868 32.201 1.00 40.50 ATOM 4581 CG LEU H 175 68.986 53.530 31.867 1.00 43.16 ATOM 4581 CG LEU H 175 68.164 51.739 35.564 1.00 34.16 ATOM 4581 CG LEU H 175 68.476 51.012 31.867 1.00 43.16 ATOM 4585 CD LEU H 175 68.476 51.012 31.3436 1.00 33.67 ATOM 4581 CG LEU H 175 68.476 51.012 31.3436 1.00 33.67 ATOM 4585 CD LEU H 175 68.476 51.012 31.3436 1.00 42.85 ATOM 4586 C C GIN H 176 68.476 51.012 31.3436 1.00 42.45 ATOM 4586 C C GIN H 176 68.266 55.011 33.453 1.00 41.25 ATOM 4589 CD CO GIN H 176 68.256 58.153 31.028 1.00 42.63 ATOM 4589 CD CO GIN H 176 69.477 57.072 35.226 1.00 42.63 ATOM 4589 CD CO GIN H 176 69.477 57.072 35.266 1.00 42.63 ATOM 4599 CG GIN H 176 69.477 57.072 35.266 1.00 42.63 ATOM 4599 CG GIN H 176 69.477 57.072 35.266 1.00 42.63 ATOM 4590 CD GIN H 176 69.477 57.072 35.266 1.00 42.63 ATOM 4590 CD GIN H 176 69.477 57.072 35.266 1.00 42.63 ATOM 4590 CD GIN H 176 69.477 57.072 35.266 1.00 42.63 ATOM 4590 CD GIN H 176 69.477 57.079 35.266 1.00 42.63 ATOM 4590 CD GIN H 176 69.477 57.079 35.266 1					57.937	53.606	29.275	1.00 19.80
ATOM 4564 N ALA H 173						54.556	28.200	1.00 17.91
ATOM 4564 N ALA H 173		-					28.547	1.00 19.41
ATOM 4566 C ALA H 173								
ATOM 4566 C ALA H 173	MOTA							
ATOM 4567 O ALA H 173 61.762 53.079 31.015 1.00 35.99 ATOM 4568 CB ALA H 173 60.801 53.285 34.058 1.00 31.27 ATOM 4569 N VAL H 174 62.997 54.563 32.211 1.00 32.51 ATOM 4570 CA VAL H 174 65.357 54.345 32.356 1.00 36.15 ATOM 4571 C VAL H 174 65.357 54.345 32.356 1.00 36.15 ATOM 4572 O VAL H 174 65.360 55.363 32.966 1.00 36.15 ATOM 4573 CB VAL H 174 65.365 55.363 32.966 1.00 36.15 ATOM 4574 CGI VAL H 174 65.365 55.363 32.966 1.00 36.15 ATOM 4575 CB VAL H 174 65.357 54.390 29.044 1.00 33.07 ATOM 4576 N LEU H 175 65.991 53.186 32.463 1.00 39.20 ATOM 4577 CA LEU H 175 65.991 53.186 32.463 1.00 39.20 ATOM 4578 C LEU H 175 67.163 52.984 33.299 1.00 37.88 ATOM 4578 C LEU H 175 68.292 53.868 32.821 1.00 40.50 ATOM 4579 O LEU H 175 68.998 53.563 31.867 1.00 43.15 ATOM 4581 CG LEU H 175 68.475 51.01 34.365 1.00 33.65 ATOM 4582 CDI LEU H 175 68.466 55.01 33.453 1.00 34.16 ATOM 4583 CDZ LEU H 175 68.228 49.513 ATOM 4584 N GNN H 176 68.466 55.01 33.453 1.00 34.21 ATOM 4586 C C GLN H 176 69.544 55.870 33.028 1.00 42.51 ATOM 4586 C C GLN H 176 69.544 55.870 33.028 1.00 42.51 ATOM 4586 C C GLN H 176 69.544 55.870 33.028 1.00 42.51 ATOM 4586 C C GLN H 176 69.471 57.219 33.755 1.00 41.23 ATOM 4587 O GLN H 176 69.471 57.229 33.738 1.00 42.45 ATOM 4589 C C GLN H 176 69.471 57.229 33.738 1.00 42.45 ATOM 4589 C C GLN H 176 69.471 57.229 33.738 1.00 42.51 ATOM 4589 C C GLN H 176 69.471 57.229 33.738 1.00 42.51 ATOM 4590 C D GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4591 C C GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4590 C D GLN H 176 68.256 58.153 35.759 1.00 41.53 ATOM 4590 C D GLN H 176 68.256 58.153 35.759 1.00 41.57 ATOM 4591 C C GLN H 176 68.256 58.153 35.759 1.00 47.73 ATOM 4590 C D GLN H 176 68.256 58.153 36.746 1.00 37.84 ATOM 4590 C D GLN H 176 68.256 58.153 36.746 1.00 37.84 ATOM 4590 C D GLN H 176 68.256 58.153 36.746 1.00 37.86 ATOM 4590 C D GLN H 176 68.256 58.153 36.746 1.00 37.86 ATOM 4590 C D GLN H 176 68.256 58.153 36.746 1.00 44.51 ATOM 4600 C C SER H 177 73.161 54.995 34.948 1.00 49.21 ATOM 4601 C C SER H 1	MOTA	4565						
ATOM 4568 CB ALB H 173 60.801 53.285 34.088 1.00 31.27 ATOM 4569 N VAL H 174 62.997 54.563 32.211 1.00 32.51 ATOM 4570 CA VAL H 174 62.686 54.322 31.422 1.00 33.95 ATOM 4571 C VAL H 174 65.357 54.345 32.356 1.00 36.15 ATOM 4572 O VAL H 174 65.357 54.345 32.356 1.00 36.14 ATOM 4573 CB VAL H 174 65.680 55.363 32.966 1.00 36.14 ATOM 4574 CG1 VAL H 174 65.860 55.363 32.966 1.00 36.14 ATOM 4575 CG2 VAL H 174 65.814 55.522 29.977 1.00 33.07 ATOM 4576 N LEU H 175 65.991 53.186 32.463 1.00 39.20 ATOM 4577 CA LEU H 175 67.63 52.984 33.299 1.00 37.88 ATOM 4578 C LEU H 175 68.292 53.868 32.821 1.00 40.50 ATOM 4579 O LEU H 175 68.292 53.868 32.821 1.00 40.50 ATOM 4580 CB LEU H 175 68.409 853.530 31.867 1.00 43.15 ATOM 4580 CB LEU H 175 68.409 853.530 31.867 1.00 43.15 ATOM 4581 CG LEU H 175 68.409 853.530 31.867 1.00 33.67 ATOM 4582 CD1 LEU H 175 68.406 55.101 33.4254 1.00 33.67 ATOM 4582 CD1 LEU H 175 68.294 33.162 1.00 36.00 ATOM 4586 CB GLN H 176 68.466 55.01 33.4254 1.00 33.65 ATOM 4586 CB GLN H 176 68.466 55.01 33.4254 1.00 33.65 ATOM 4586 CB GLN H 176 69.544 55.870 33.028 1.00 42.45 ATOM 4587 O GNN H 176 69.471 57.02 35.266 1.00 33.416 ATOM 4588 CD GLN H 176 69.471 57.02 35.266 1.00 34.12 ATOM 4589 CB GLN H 176 69.471 57.02 35.226 1.00 42.65 ATOM 4590 CD GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4591 CE GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4592 NEZ GLN H 176 68.256 58.153 35.290 1.00 41.73 ATOM 4596 CB GLN H 176 68.256 58.153 35.290 1.00 41.52 ATOM 4597 CB SER H 177 72.950 55.620 33.048 1.00 42.65 ATOM 4599 N SER H 177 72.950 55.620 33.048 1.00 42.65 ATOM 4590 CD GLN H 176 68.256 58.153 35.290 1.00 41.52 ATOM 4590 CD GLN H 176 68.256 58.153 35.290 1.00 41.52 ATOM 4591 CE GLN H 176 68.256 58.153 35.290 1.00 41.52 ATOM 4590 CD GLN H 176 68.256 58.153 35.290 1.00 41.52 ATOM 4590 CD GLN H 176 68.256 58.153 35.290 1.00 41.52 ATOM 4590 CD GLN H 176 68.256 58.153 35.290 1.00 41.52 ATOM 4590 CD GLN H 179 70.216 52.293 38.497 1.00 47.73 ATOM 4591 CE GLN H 179 70.216 52.293 38.497 1.00 47.73 ATOM 4590 CD GLN H 1	ATOM	4566	С					
ATOM 4568 CB ALAH 173 60.801 53.285 34.098 1.00 31.27 ATOM 4559 N VAL H 174 62.997 54.563 32.211 1.00 32.51 ATOM 4570 CA VAL H 174 65.357 54.345 32.356 1.00 36.15 ATOM 4571 C VAL H 174 65.680 55.363 32.966 1.00 36.15 ATOM 4572 O VAL H 174 65.680 55.363 32.966 1.00 36.15 ATOM 4573 CB VAL H 174 65.680 55.363 32.966 1.00 36.14 ATOM 4573 CB VAL H 174 65.680 55.363 32.966 1.00 36.14 ATOM 4575 CG2 VAL H 174 65.680 55.363 32.966 1.00 36.15 ATOM 4576 N LEU H 175 65.915 53.186 32.463 1.00 39.20 ATOM 4577 CA LEU H 175 67.163 52.984 33.299 1.00 37.88 ATOM 4577 CA LEU H 175 68.292 53.868 32.821 1.00 40.50 ATOM 4578 C LEU H 175 68.292 53.868 32.821 1.00 40.50 ATOM 4580 CB LEU H 175 68.498 53.530 31.867 1.00 43.15 ATOM 4580 CB LEU H 175 68.498 53.530 31.867 1.00 43.15 ATOM 4581 CG LEU H 175 68.498 53.530 31.867 1.00 33.65 ATOM 4582 CD1 LEU H 175 68.164 51.739 33.162 1.00 34.16 ATOM 4583 CD2 LEU H 175 68.228 49.513 34.336 1.00 35.49 ATOM 4580 CD2 LEU H 175 68.646 55.01 33.453 1.00 42.45 ATOM 4586 CD GLN H 176 69.474 55.113 34.336 1.00 34.16 ATOM 4586 CD GLN H 176 69.544 55.870 33.453 1.00 42.45 ATOM 4587 C GLN H 176 69.471 57.219 33.738 1.00 42.55 ATOM 4589 CD GLN H 176 69.471 57.219 33.738 1.00 42.55 ATOM 4590 CD GLN H 176 69.471 57.219 33.738 1.00 42.55 ATOM 4590 CD GLN H 176 69.471 57.229 33.738 1.00 42.63 ATOM 4591 CD GLN H 176 69.471 57.229 33.738 1.00 42.63 ATOM 4591 CD GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4596 CD GLN H 176 69.471 57.229 33.738 1.00 42.63 ATOM 4591 CD GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4590 CD GLN H 176 69.471 57.229 33.492 1.00 44.51 ATOM 4591 CD GLN H 176 69.471 57.229 33.492 1.00 44.51 ATOM 4590 CD GLN H 176 69.471 57.229 33.492 1.00 44.51 ATOM 4590 CD GLN H 176 69.471 57.229 33.492 1.00 44.51 ATOM 4590 CD GLN H 176 69.471 57.229 33.492 1.00 44.51 ATOM 4590 CD GLN H 176 69.471 57.229 33.492 1.00 44.51 ATOM 4590 CD GLN H 176 69.471 77.225 55.620 33.402 1.00 44.51 ATOM 4500 CD GLN H 179 72.53 55.620 33.402 1.00 44.51 ATOM 4501 CD GLN H 179 72.53 55.620 33.402 1.00 44.51 ATOM 4501	ATOM	4567	0					
ATOM 4569 N VAL H 174 62.997 54.563 32.211 1.00 32.51 ATOM 4570 CA VAL H 174 65.668 4322 31.422 1.00 33.95 ATOM 4571 C VAL H 174 65.680 55.363 32.966 1.00 36.15 ATOM 4573 CB VAL H 174 65.680 55.363 32.966 1.00 36.15 ATOM 4573 CB VAL H 174 65.814 55.522 29.977 1.00 38.96 ATOM 4576 N LEU H 175 65.814 55.522 29.977 1.00 33.07 ATOM 4576 N LEU H 175 65.991 53.186 32.463 1.00 33.07 ATOM 4577 CA LEU H 175 65.991 53.186 32.463 1.00 39.20 ATOM 4578 C LEU H 175 66.991 53.186 32.463 1.00 39.20 ATOM 4578 C LEU H 175 68.998 53.530 31.867 1.00 40.50 ATOM 4578 C LEU H 175 68.998 53.530 31.867 1.00 40.50 ATOM 4581 CG LEU H 175 68.495 53.546 32.821 1.00 40.50 ATOM 4581 CG LEU H 175 68.475 51.012 34.254 1.00 33.65 ATOM 4582 CD1 LEU H 175 68.475 51.012 34.254 1.00 33.65 ATOM 4583 CD2 LEU H 175 68.466 55.011 33.453 1.00 41.23 ATOM 4586 C GLN H 176 69.544 55.870 33.028 1.00 41.23 ATOM 4586 C GLN H 176 69.544 55.870 33.028 1.00 42.45 ATOM 4588 CB GLN H 176 69.544 55.810 33.4336 1.00 34.16 ATOM 4589 CG GLN H 176 69.574 55.112 33.477 1.00 44.51 ATOM 4590 CD GLN H 176 69.777 57.072 35.226 1.00 42.45 ATOM 4591 CGI GLN H 176 69.777 57.072 35.226 1.00 42.85 ATOM 4590 CD GLN H 176 69.777 57.072 35.226 1.00 42.85 ATOM 4591 CGI GLN H 176 69.777 57.072 35.226 1.00 42.85 ATOM 4590 CD GLN H 176 69.777 57.072 35.226 1.00 42.85 ATOM 4590 CD GLN H 176 69.777 57.072 35.226 1.00 42.85 ATOM 4591 CGI GLN H 176 69.777 57.072 35.226 1.00 42.85 ATOM 4590 CD GLN H 176 69.777 57.072 35.226 1.00 42.85 ATOM 4590 CD GLN H 176 69.777 57.072 35.226 1.00 42.85 ATOM 4590 CD GLN H 176 69.777 57.072 35.226 1.00 42.85 ATOM 4590 CD GLN H 176 69.777 57.072 35.226 1.00 42.85 ATOM 4590 CD GLN H 176 69.777 57.072 35.226 1.00 42.85 ATOM 4590 CD GLN H 176 69.575 58.153 37.799 1.00 41.52 ATOM 4590 CD GLN H 176 69.797 57.072 35.226 1.00 42.85 ATOM 4590 CD GLN H 176 69.797 57.072 35.226 1.00 42.85 ATOM 4590 CD GLN H 176 69.797 57.072 35.226 1.00 42.85 ATOM 4590 CD GLN H 176 69.797 57.072 35.226 1.00 42.85 ATOM 4591 CGI GLN H 176 69.797 59.293 34.991 1.00 44.79 ATOM 4500 CD GL		4568	CB	ALA H 173	60.801			
ATOM 4571 C VAL H 174 65.357 54.322 31.422 1.00 33.95 ATOM 4572 O VAL H 174 65.357 54.345 32.356 1.00 36.15 ATOM 4573 CB VAL H 174 65.357 54.355 33.2.966 1.00 36.15 ATOM 4574 CGI VAL H 174 65.360 55.363 32.966 1.00 36.15 ATOM 4574 CGI VAL H 174 64.332 55.361 30.307 1.00 35.70 ATOM 4575 CG2 VAL H 174 65.576 54.900 29.044 1.00 33.97 ATOM 4576 N LEU H 175 67.163 52.984 33.229 1.00 37.88 ATOM 4577 CA LEU H 175 67.163 52.984 33.229 1.00 37.88 ATOM 4578 C LEU H 175 68.292 53.868 32.821 1.00 40.50 ATOM 4578 C LEU H 175 68.292 53.868 32.821 1.00 40.50 ATOM 4580 CB LEU H 175 68.495 53.530 31.867 1.00 43.15 ATOM 4581 CG LEU H 175 68.495 53.530 31.867 1.00 33.05 ATOM 4581 CG LEU H 175 68.475 51.012 34.254 1.00 33.65 ATOM 4582 CDI LEU H 175 68.464 51.339 35.564 1.00 33.65 ATOM 4582 CDI LEU H 175 68.465 55.011 33.453 1.00 41.23 ATOM 4586 CB GLN H 176 68.466 55.011 33.453 1.00 41.23 ATOM 4586 CB GLN H 176 69.544 55.870 33.028 1.00 42.45 ATOM 4586 CB GLN H 176 69.544 55.870 33.028 1.00 42.45 ATOM 4586 CB GLN H 176 69.544 55.870 33.028 1.00 42.63 ATOM 4589 CG GLN H 176 69.471 57.219 33.738 1.00 42.63 ATOM 4590 CD GLN H 176 69.471 57.219 33.738 1.00 42.63 ATOM 4590 CD GLN H 176 69.471 57.219 33.738 1.00 42.63 ATOM 4590 CD GLN H 176 69.471 57.219 33.738 1.00 42.63 ATOM 4590 CD GLN H 176 69.471 57.219 33.738 1.00 42.63 ATOM 4590 CD GLN H 176 69.471 57.219 33.738 1.00 42.63 ATOM 4590 CD GLN H 176 69.471 57.072 35.226 1.00 42.63 ATOM 4590 CD GLN H 176 69.471 57.072 35.226 1.00 42.63 ATOM 4590 CD GLN H 176 69.471 57.072 35.226 1.00 42.63 ATOM 4590 CD GLN H 176 69.471 57.072 35.225 1.00 41.52 ATOM 4590 CD GLN H 176 69.471 57.072 35.226 1.00 42.63 ATOM 4590 CD GLN H 176 69.471 57.072 35.226 1.00 42.63 ATOM 4590 CD GLN H 176 69.471 57.072 35.225 1.00 41.52 ATOM 4590 CD GLN H 176 69.471 57.072 35.225 1.00 41.52 ATOM 4590 CD GLN H 176 69.471 57.072 35.225 35.290 1.00 41.73 ATOM 4590 CD GLN H 176 69.471 57.072 35.225 35.290 1.00 41.73 ATOM 4500 CD GLN H 179 71.50 52.253 33.851 1.00 44.75 ATOM 4500 CD GLN H 179 71.50 52.253 33.853 33.851 1			N	VAL H 174	62.997	54.563	32.211	
ATOM 4571 C VAL H 174 65.357 54.345 32.356 1.00 36.14 ATOM 4573 CB VAL H 174 65.680 55.363 32.966 1.00 36.14 ATOM 4573 CB VAL H 174 66.314 55.522 29.977 1.00 38.70 ATOM 4575 CG2 VAL H 174 66.814 55.522 29.977 1.00 38.70 ATOM 4576 N LEU H 175 65.91 53.186 32.463 1.00 33.07 ATOM 4576 N LEU H 175 65.991 53.186 32.463 1.00 33.07 ATOM 4577 CA LEU H 175 66.292 53.868 32.821 1.00 40.50 ATOM 4578 C LEU H 175 68.292 53.868 32.821 1.00 40.50 ATOM 4578 C LEU H 175 68.292 53.868 32.821 1.00 40.50 ATOM 4578 C LEU H 175 68.984 33.162 1.00 36.00 ATOM 4580 CB LEU H 175 68.464 51.549 33.162 1.00 36.00 ATOM 4581 CG LEU H 175 68.475 51.012 34.254 1.00 36.00 ATOM 4581 CG LEU H 175 68.475 51.012 34.254 1.00 36.00 ATOM 4583 CD2 LEU H 175 68.466 55.011 33.453 1.00 42.25 ATOM 4583 CD2 LEU H 175 68.466 55.011 33.453 1.00 42.24 ATOM 4583 CD2 LEU H 175 68.546 55.011 33.453 1.00 42.24 ATOM 4586 C GLN H 176 69.544 55.870 33.028 1.00 42.45 ATOM 4586 C GLN H 176 70.687 54.088 34.201 1.00 34.51 ATOM 4588 CB GLN H 176 70.687 54.088 34.201 1.00 44.51 ATOM 4589 CG GLN H 176 69.471 57.219 33.738 1.00 42.285 ATOM 4591 OEI GLN H 176 68.256 58.153 35.759 1.00 44.53 ATOM 4591 OEI GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4593 N SER H 177 73.235 55.620 33.498 1.00 42.28 ATOM 4593 N SER H 177 73.235 55.620 33.498 1.00 44.55 ATOM 4599 N SER H 177 72.080 55.223 35.520 1.00 41.53 ATOM 4599 N SER H 177 74.407 55.908 32.991 1.00 44.77 ATOM 4599 N SER H 178 74.273 54.752 35.630 1.00 44.77 ATOM 4599 N SER H 178 74.273 54.752 35.630 1.00 44.55 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 44.55 ATOM 4601 C SER H 178 74.273 54.752 35.636 31.00 40.45 ATOM 4601 C SER H 178 72.950 52.789 36.185 1.00 47.73 ATOM 4601 C SER H 178 72.950 52.789 38.893 1.00 50.75 ATOM 4601 C SER H 178 74.266 54.668 38.393 38.893 1.00 50.75 ATOM 4601 C SER H 178 74.266 54.669 36.626 1.00 57.84 ATOM 4601 C SER H 178 74.273 54.752 35.669 38.491 1.00 44.79 ATOM 4601 C SER H 178 74.266 55.525 40.639 38.893 1.00 50.75 ATOM 4601 C LEU H 180 66.264 55.253 38.739 38.893 1.00 50.75 ATOM					64.168	54.322		
ATOM 4572 C VAL H 174 ATOM 4573 CB VAL H 174 ATOM 4573 CB VAL H 174 ATOM 4574 CG1 VAL H 174 ATOM 4576 CG2 VAL H 174 ATOM 4576 N LEU H 175 ATOM 4577 CA LEU H 175 ATOM 4577 CA LEU H 175 ATOM 4577 CA LEU H 175 ATOM 4578 C LEU H 175 ATOM 4578 C LEU H 175 ATOM 4578 C LEU H 175 ATOM 4579 O LEU H 175 ATOM 4580 CB LEU H 175 ATOM 4581 CG LEU H 175 ATOM 4581 CG LEU H 175 ATOM 4582 CD1 LEU H 175 ATOM 4582 CD1 LEU H 175 ATOM 4584 CD LEU H 175 ATOM 4585 CA GLN H 176 ATOM 4586 C GLN H 176 ATOM 4587 O GLN H 176 ATOM 4588 CD GLN H 176 ATOM 4589 C GLN H 176 ATOM 4589 C GLN H 176 ATOM 4589 C GLN H 176 ATOM 4580 C GLN H 176 ATOM 4590 C D GLN H 176 ATOM 4590 C						54.345	32.356	
ATOM 4573 CB VAL H 174 65.814 55.52 29.977 1.00 35.70 ATOM 4576 CG1 VAL H 174 65.814 55.52 29.977 1.00 38.96 ATOM 4575 CC VAL H 174 65.814 55.52 29.977 1.00 38.96 ATOM 4576 N LEU H 175 65.914 53.186 32.463 1.00 33.07 ATOM 4576 CA LEU H 175 66.991 53.186 32.463 1.00 37.88 ATOM 4578 C LEU H 175 68.992 53.866 32.821 1.00 40.50 ATOM 4578 C LEU H 175 68.998 53.530 31.867 1.00 40.50 ATOM 4580 CB LEU H 175 68.998 53.530 31.867 1.00 36.00 ATOM 4581 CG LEU H 175 68.475 51.012 34.254 1.00 36.50 ATOM 4581 CG LEU H 175 68.164 51.739 35.564 1.00 34.65 ATOM 4581 CG LEU H 175 68.284 49.513 34.362 1.00 34.65 ATOM 4583 CD2 LEU H 175 68.284 95.13 34.336 1.00 34.23 ATOM 4583 CD2 LEU H 175 68.284 95.13 34.336 1.00 34.23 ATOM 4584 N GLN H 176 69.544 55.870 33.028 1.00 42.23 ATOM 4586 C GLN H 176 69.544 55.870 33.028 1.00 42.85 ATOM 4589 CG GLN H 176 69.544 55.870 33.028 1.00 42.85 ATOM 4589 CG GLN H 176 69.471 57.219 33.738 1.00 42.85 ATOM 4589 CG GLN H 176 69.471 57.219 33.738 1.00 42.85 ATOM 4589 CG GLN H 176 69.471 57.219 33.738 1.00 42.85 ATOM 4591 OEI GLN H 176 68.255 59.295 35.290 1.00 41.37 ATOM 4593 N SER H 177 71.952 55.026 33.048 1.00 49.21 ATOM 4594 CA SER H 177 72.080 55.223 35.529 1.00 41.37 ATOM 4594 CA SER H 177 72.080 55.223 35.529 1.00 41.37 ATOM 4595 C SER H 177 72.080 55.223 35.529 1.00 44.75 ATOM 4597 CB SER H 177 72.080 55.233 33.425 1.00 44.75 ATOM 4597 CB SER H 177 72.080 55.223 33.625 1.00 44.75 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 44.75 ATOM 4601 CA SER H 178 74.273 54.752 35.630 1.00 44.75 ATOM 4601 CA SER H 178 74.273 54.752 36.838 1.00 44.78 ATOM 4601 CA SER H 178 74.273 54.752 38.839 1.00 47.74 ATOM 4601 CA LEU H 180 68.955 54.669 36.626 1.00 53.84 ATOM 4601 CA LEU H 180 68.964 55.499 38.893 1.00 47.74 ATOM 4601 CA LEU H 180 68.965 54.669 36.626 1.00 53.84 ATOM 4601 CA LEU H 180 68.964 55.525 40.137 1.00 53.73 ATOM 4601 CA LEU H 180 68.965 54.669 36.626 1.00 53.84 ATOM 4601 CA LEU H 180 68.965 55.525 40.137 1.00 53.01 ATOM 4601 CA LEU H 180 68.965 55.525 40.137 1.00 53.01 ATOM 4601 CA LEU H						55.363		1.00 36.14
ATOM 4576 CG2 VAL H 174 65.814 55.522 29.977 1.00 38.96 ATOM 4576 N LEU H 175 65.991 53.186 32.463 1.00 39.20 ATOM 4576 N LEU H 175 65.991 53.186 32.463 1.00 39.20 ATOM 4576 N LEU H 175 68.5991 53.186 32.463 1.00 39.20 ATOM 4577 CA LEU H 175 68.292 53.868 32.821 1.00 40.50 ATOM 4579 O LEU H 175 68.998 53.550 31.867 1.00 43.15 ATOM 4580 CB LEU H 175 68.998 53.550 31.867 1.00 33.65 ATOM 4581 CG LEU H 175 68.475 51.012 34.254 1.00 33.65 ATOM 4583 CD1 LEU H 175 68.475 51.012 34.254 1.00 33.65 ATOM 4583 CD2 LEU H 175 68.164 51.739 35.564 1.00 34.16 ATOM 4583 CD2 LEU H 175 68.282 49.513 34.336 1.00 35.49 ATOM 4585 CA GLN H 176 69.544 55.870 33.028 1.00 42.45 ATOM 4586 C GLN H 176 69.544 55.870 33.028 1.00 42.45 ATOM 4587 O GLN H 176 69.544 55.870 33.028 1.00 42.45 ATOM 4587 O GLN H 176 69.471 57.219 33.738 1.00 44.51 ATOM 4589 CG GLN H 176 69.471 57.029 35.226 1.00 34.21 ATOM 4590 CD GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4590 CD GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 41.52 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 41.52 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 41.52 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 42.63 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 41.52 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 41.52 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 41.52 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 41.52 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 41.52 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 41.52 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 41.52 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 41.52 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 41.52 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 41.52 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 41.52 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 41.52 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 41.52 ATOM 4590 CD GLN H 176 68.275 59.295 35.220 1.00 41.52 ATOM 4590 CD GLN H 176 68.256 58.153 36.822 31.00 47.73 ATOM 4590 CD							30.307	
ATOM 4575 CG2 VAL H 174 63.576 54.900 29.044 1.00 33.07 ATOM 4576 N LEU H 175 65.991 53.186 32.463 1.00 39.20 ATOM 4577 CA LEU H 175 68.292 53.868 32.821 1.00 40.50 ATOM 4579 O LEU H 175 68.292 53.868 32.821 1.00 40.50 ATOM 4579 O LEU H 175 68.292 53.868 32.821 1.00 40.50 ATOM 4580 CB LEU H 175 68.475 51.012 34.254 1.00 33.65 ATOM 4581 CG LEU H 175 68.164 51.739 35.564 1.00 33.65 ATOM 4582 CD1 LEU H 175 68.164 51.739 35.564 1.00 33.65 ATOM 4583 CD2 LEU H 175 68.282 49.513 34.336 1.00 42.85 ATOM 4585 CA GLN H 176 68.466 55.011 33.453 1.00 42.85 ATOM 4586 C GLN H 176 69.544 55.870 33.028 1.00 42.51 ATOM 4586 C GLN H 176 69.544 55.870 33.028 1.00 42.51 ATOM 4589 CG GLN H 176 69.471 57.219 33.738 1.00 42.81 ATOM 4589 CG GLN H 176 69.471 57.219 33.738 1.00 42.85 ATOM 4590 CD GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4590 CD GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4593 N SER H 177 71.952 55.620 33.048 1.00 42.85 ATOM 4594 CA SER H 177 73.235 55.026 33.048 1.00 44.85 ATOM 4594 CA SER H 177 73.235 55.026 33.048 1.00 44.75 ATOM 4599 N SER H 177 73.235 55.026 33.048 1.00 44.75 ATOM 4599 N SER H 177 73.235 55.026 33.048 1.00 44.75 ATOM 4599 N SER H 177 74.407 55.908 32.991 1.00 44.75 ATOM 4600 CA SER H 178 74.293 54.752 35.502 1.00 41.37 ATOM 4600 CA SER H 178 74.293 54.522 35.630 1.00 44.79 ATOM 4600 CA SER H 178 74.293 54.522 35.630 1.00 44.79 ATOM 4600 CA SER H 178 74.293 54.525 38.351 1.00 44.79 ATOM 4600 CA SER H 178 74.293 54.525 38.351 1.00 44.79 ATOM 4600 CA SER H 178 74.293 54.525 38.351 1.00 47.47 ATOM 4600 CA SER H 178 74.293 54.525 38.351 1.00 47.47 ATOM 4600 CA SER H 178 74.293 54.525 38.351 1.00 47.47 ATOM 4600 CA SER H 178 74.293 54.525 38.351 1.00 44.79 ATOM 4600 CA SER H 178 74.293 54.525 38.351 1.00 44.79 ATOM 4600 CA SER H 178 74.293 54.525 38.351 1.00 44.79 ATOM 4600 CA SER H 178 74.293 54.525 38.351 1.00 44.79 ATOM 4600 CA SER H 178 74.293 54.525 38.351 1.00 43.98 ATOM 4600 CA SER H 178 74.293 55.265 38.354 1.00 43.98 ATOM 4600 CA SER H 178 74.293 54.525 38.351 1.00 43.98 ATOM 4600 CA SER								
ATOM 4576 N LEU H 175 65.991 53.186 32.463 1.00 39.20 ATOM 4577 CA LEU H 175 67.163 52.984 33.299 1.00 37.88 ATOM 4578 C LEU H 175 68.292 53.868 32.821 1.00 40.50 ATOM 4579 O LEU H 175 68.998 53.530 31.867 1.00 43.15 ATOM 4580 CB LEU H 175 67.600 51.549 33.162 1.00 34.51 ATOM 4581 CG LEU H 175 68.475 51.012 34.254 1.00 34.51 ATOM 4581 CD1 LEU H 175 68.164 51.739 35.564 1.00 34.16 ATOM 4583 CD2 LEU H 175 68.228 49.513 34.336 1.00 34.16 ATOM 4584 N GLN H 176 68.265 55.011 33.453 1.00 41.23 ATOM 4585 CA GLN H 176 69.544 55.870 33.028 1.00 42.45 ATOM 4586 C GLN H 176 70.787 55.112 33.477 1.00 44.51 ATOM 4589 CG GLN H 176 69.471 57.219 33.738 1.00 42.85 ATOM 4590 CD GLN H 176 69.471 57.219 33.738 1.00 42.85 ATOM 4590 CD GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4591 OEI GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4593 N SER H 177 73.265 59.295 35.290 1.00 41.37 ATOM 4594 CA SER H 177 73.265 59.295 35.290 1.00 41.37 ATOM 4590 CD GLN H 176 67.450 57.072 35.226 1.00 42.63 ATOM 4590 CD GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4590 CD GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4593 N SER H 177 73.265 59.295 35.290 1.00 41.37 ATOM 4590 CD GLN H 176 67.450 57.072 35.226 1.00 42.63 ATOM 4590 CD GLN H 176 68.256 58.153 35.759 1.00 47.73 ATOM 4590 CD SER H 177 73.265 55.620 33.048 1.00 48.95 ATOM 4590 N SER H 177 73.265 55.223 35.522 1.00 51.38 ATOM 4590 N SER H 177 72.080 55.223 35.522 1.00 51.38 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 44.75 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 44.75 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 44.75 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 44.75 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 44.76 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 44.76 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 44.76 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 44.75 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 40.62 ATOM 4600 CA SER H 178 74.273 54.752 38.349 1.00 57.75 ATOM 4600 CA SER H 178 74.273 54.752 38.349 1.00 57.75 ATOM 4600 CA SER								
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ATOM 4582 CD1 LEU H 175 68.164 51.739 35.564 1.00 34.16 ATOM 4583 CD2 LEU H 175 68.228 49.513 34.336 1.00 35.49 ATOM 4584 N GLN H 176 68.466 55.011 33.453 1.00 41.23 ATOM 4585 CA GLN H 176 69.544 55.870 33.028 1.00 42.45 ATOM 4586 C GLN H 176 70.787 55.112 33.477 1.00 44.51 ATOM 4587 O GLN H 176 70.687 54.088 34.201 1.00 34.21 ATOM 4588 CB GLN H 176 69.471 57.219 33.738 1.00 42.85 ATOM 4589 CG GLN H 176 69.177 57.072 35.226 1.00 42.63 ATOM 4590 CD GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4591 OEI GLN H 176 68.255 58.153 35.759 1.00 41.52 ATOM 4592 NE2 GLN H 176 68.255 58.153 35.759 1.00 41.53 ATOM 4593 N SER H 177 71.952 55.620 33.048 1.00 48.95 ATOM 4594 CA SER H 177 73.235 55.620 33.048 1.00 48.95 ATOM 4595 C SER H 177 73.235 55.620 33.048 1.00 49.21 ATOM 4596 O SER H 177 73.235 55.620 33.042 1.00 47.73 ATOM 4599 N SER H 177 74.407 55.908 32.991 1.00 44.75 ATOM 4599 N SER H 178 74.273 54.752 35.630 1.00 44.75 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 44.79 ATOM 4601 C SER H 178 74.166 54.678 37.081 1.00 44.81 ATOM 4602 O SER H 178 74.273 54.752 35.630 1.00 44.81 ATOM 4603 CB SER H 178 74.273 54.752 35.630 1.00 44.79 ATOM 4604 OG SER H 178 72.210 55.735 38.048 1.00 37.26 ATOM 4605 N GLY H 179 72.573 53.265 38.351 1.00 47.38 ATOM 4601 CA LEU H 180 68.364 53.839 38.893 1.00 50.75 ATOM 4609 N LEU H 180 68.364 53.839 38.893 1.00 50.75 ATOM 4610 CA LEU H 180 68.255 54.245 37.667 1.00 53.37 ATOM 4610 CA LEU H 180 68.250 54.930 39.962 1.00 53.84 ATOM 4611 C LEU H 180 68.250 54.930 39.962 1.00 53.84 ATOM 4612 C LEU H 180 68.250 54.930 39.962 1.00 53.84 ATOM 4613 CB LEU H 180 68.250 54.930 39.962 1.00 53.84 ATOM 4614 CG LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 55.72					68.475	51.012	34.254	
ATOM 4583 CD2 LEU H 175 68.228 49.513 34.336 1.00 35.49 ATOM 4584 N GIN H 176 68.466 55.011 33.453 1.00 41.23 ATOM 4585 CA GLN H 176 69.544 55.870 33.028 1.00 42.45 ATOM 4586 C GIN H 176 70.787 55.112 33.477 1.00 44.51 ATOM 4587 O GLN H 176 70.787 55.112 33.477 1.00 44.51 ATOM 4588 CB GLN H 176 69.471 57.219 33.738 1.00 42.85 ATOM 4589 CG GLN H 176 69.471 57.219 33.738 1.00 42.85 ATOM 4590 CD GLN H 176 69.471 57.219 33.738 1.00 42.85 ATOM 4591 OEI GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4592 NE2 GLN H 176 67.450 57.801 36.746 1.00 37.83 ATOM 4593 N SER H 177 71.952 55.620 33.048 1.00 48.95 ATOM 4594 CA SER H 177 73.255 55.026 33.048 1.00 48.95 ATOM 4595 C SER H 177 73.265 55.026 33.425 1.00 47.73 ATOM 4596 O SER H 177 73.161 54.995 34.948 1.00 49.21 ATOM 4597 CB SER H 177 74.407 55.908 32.991 1.00 44.75 ATOM 4599 N SER H 178 74.273 54.752 35.630 1.00 46.10 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 46.10 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 46.10 ATOM 4600 CA SER H 178 73.181 53.491 37.194 1.00 44.79 ATOM 4600 CA SER H 178 73.558 55.966 37.661 1.00 38.93 ATOM 4600 CA SER H 178 73.558 55.966 37.661 1.00 38.93 ATOM 4600 CA SER H 178 73.558 55.966 37.661 1.00 38.93 ATOM 4600 CA GLY H 179 70.216 52.293 38.497 1.00 44.79 ATOM 4600 CA GLY H 179 70.216 52.293 38.497 1.00 47.47 ATOM 4600 CA LEU H 180 69.787 53.526 38.731 1.00 50.75 ATOM 4601 C LEU H 180 69.787 53.526 38.731 1.00 50.75 ATOM 4601 CA LEU H 180 69.787 53.526 38.731 1.00 50.75 ATOM 4601 CA LEU H 180 69.787 53.526 40.33 9.962 1.00 53.84 ATOM 4610 CA LEU H 180 69.787 53.526 40.33 9.962 1.00 53.84 ATOM 4610 CA LEU H 180 69.489 55.161 40.782 1.00 53.84 ATOM 4611 C LEU H 180 69.489 55.161 40.782 1.00 53.01 ATOM 4615 CD2 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 55.72				LEU H 175	68.164	51.739	35.564	1.00 34.16
ATOM 4584 N GLN H 176 68.466 55.011 33.453 1.00 41.23 ATOM 4585 CA GLN H 176 69.544 55.870 33.028 1.00 42.45 ATOM 4587 O GLN H 176 70.787 55.112 33.477 1.00 44.51 ATOM 4588 CB GLN H 176 70.687 54.088 34.201 1.00 34.21 ATOM 4588 CB GLN H 176 69.471 57.219 33.738 1.00 42.85 ATOM 4589 CG GLN H 176 69.471 57.219 33.738 1.00 42.85 ATOM 4590 CD GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4591 OEI GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4591 OEI GLN H 176 68.256 58.153 35.759 1.00 41.37 ATOM 4592 NE2 GLN H 176 68.256 58.153 35.759 1.00 41.37 ATOM 4593 N SER H 177 71.952 55.620 33.048 1.00 48.95 ATOM 4595 C SER H 177 73.235 55.026 33.425 1.00 47.73 ATOM 4596 O SER H 177 73.235 55.026 33.425 1.00 47.73 ATOM 4596 O SER H 177 72.080 55.223 35.522 1.00 51.38 ATOM 4599 N SER H 178 74.407 55.908 32.991 1.00 44.75 ATOM 4599 N SER H 178 74.273 54.752 35.630 1.00 44.75 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 44.79 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 44.79 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 44.79 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 44.79 ATOM 4600 CA SER H 178 73.181 53.491 37.194 1.00 44.79 ATOM 4600 CA SER H 178 73.181 53.491 37.194 1.00 44.79 ATOM 4600 CA SER H 178 73.181 53.491 37.194 1.00 44.79 ATOM 4600 CA SER H 178 73.181 53.491 37.194 1.00 44.79 ATOM 4600 CA SER H 178 73.181 53.491 37.194 1.00 44.79 ATOM 4600 CA SER H 178 72.950 52.789 36.185 1.00 46.89 ATOM 4605 N GLY H 179 72.573 53.265 38.354 1.00 47.47 ATOM 4600 CA SER H 178 72.950 52.789 36.185 1.00 47.47 ATOM 4600 CA SER H 178 72.950 52.789 38.048 1.00 37.26 ATOM 4601 CA LEU H 180 68.364 53.839 38.893 1.00 50.75 ATOM 4601 CA LEU H 180 68.364 53.839 38.893 1.00 50.75 ATOM 4610 CA LEU H 180 68.364 53.839 38.893 1.00 50.75 ATOM 4611 C LEU H 180 68.055 54.669 36.626 1.00 53.84 ATOM 4616 CD1 LEU H 180 68.055 54.669 36.626 1.00 53.84 ATOM 4616 CD1 LEU H 180 68.055 54.669 36.626 1.00 53.84 ATOM 4616 CD2 LEU H 180 68.055 54.693 36.625 40.137 1.00 47.43 ATOM 4616 CD1 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 46							34.336	1.00 35.49
ATOM 4585 CA GLN H 176 69.544 55.870 33.028 1.00 42.45 ATOM 4586 C GLN H 176 70.687 55.112 33.477 1.00 44.51 ATOM 4587 O GLN H 176 70.687 54.088 34.201 1.00 34.21 ATOM 4589 CG GLN H 176 69.471 57.219 33.738 1.00 42.63 ATOM 4589 CG GLN H 176 69.471 57.219 33.738 1.00 42.63 ATOM 4590 CD GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4591 OEL GLN H 176 68.256 58.153 35.759 1.00 41.52 ATOM 4592 NEZ GLN H 176 67.450 57.801 36.746 1.00 37.83 ATOM 4593 N SER H 177 71.952 55.620 33.048 1.00 48.95 ATOM 4594 CA SER H 177 73.235 55.026 33.425 1.00 47.73 ATOM 4595 C SER H 177 73.235 55.026 33.425 1.00 47.73 ATOM 4595 C SER H 177 72.080 55.223 35.522 1.00 51.38 ATOM 4597 CB SER H 177 72.080 55.223 35.522 1.00 51.38 ATOM 4599 N SER H 177 74.407 55.908 32.991 1.00 44.75 ATOM 4600 CA SER H 178 74.273 54.752 35.630 1.00 46.10 ATOM 4600 CA SER H 178 74.166 54.678 37.081 1.00 44.79 ATOM 4601 C SER H 178 74.273 54.752 35.630 1.00 44.79 ATOM 4600 CB SER H 178 74.166 54.678 37.081 1.00 44.79 ATOM 4600 CB SER H 178 73.581 55.966 37.661 1.00 38.93 ATOM 4604 OG SER H 178 72.210 55.735 38.048 1.00 37.26 ATOM 4605 N GLY H 179 72.573 53.265 38.354 1.00 47.36 ATOM 4606 CA GLY H 179 72.573 53.265 38.354 1.00 47.37 ATOM 4606 CA GLY H 179 72.573 53.265 38.354 1.00 47.37 ATOM 4608 O GLY H 179 72.573 53.265 38.354 1.00 47.37 ATOM 4608 O GLY H 179 72.573 53.265 38.354 1.00 47.37 ATOM 4608 O GLY H 179 72.573 53.265 38.354 1.00 47.37 ATOM 4608 O GLY H 179 72.573 53.265 38.354 1.00 47.37 ATOM 4608 O GLY H 179 72.573 53.526 38.354 1.00 47.37 ATOM 4608 O GLY H 179 70.216 52.293 38.497 1.00 47.37 ATOM 4610 CA LEU H 180 69.787 53.526 38.351 1.00 50.75 ATOM 4611 C LEU H 180 68.220 54.930 39.962 1.00 53.84 ATOM 4611 C LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4612 O LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4616 CD1 LEU H 180 69.489 55.161 40.782 1.00 53.31 ATOM 4616 CD1 LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4616 CD2 LEU H 180 69.489 55.161 40.782 1.00 53.01 ATOM 4616 CD2 LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4616 CD2 LEU H 18								
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ATOM 4595 C SER H 177 73.161 54.995 34.948 1.00 49.21 ATOM 4596 O SER H 177 72.080 55.223 35.522 1.00 51.38 ATOM 4597 CB SER H 177 74.407 55.908 32.991 1.00 44.75 ATOM 4598 OG SER H 177 75.524 55.632 33.810 1.00 44.55 ATOM 4599 N SER H 178 74.273 54.752 35.630 1.00 46.10 ATOM 4600 CA SER H 178 74.166 54.678 37.081 1.00 44.81 ATOM 4601 C SER H 178 73.181 53.491 37.194 1.00 44.79 ATOM 4602 O SER H 178 72.950 52.789 36.185 1.00 46.89 ATOM 4603 CB SER H 178 73.558 55.966 37.661 1.00 38.93 ATOM 4604 OG SER H 178 72.210 55.735 38.048 1.00 37.26 ATOM 4605 N GLY H 179 72.573 53.265 38.354 1.00 40.62 ATOM 4606 CA GLY H 179 71.710 52.106 38.435 1.00 47.38 ATOM 4608 O GLY H 179 70.216 52.293 38.497 1.00 47.38 ATOM 4608 O GLY H 179 69.466 51.334 38.293 1.00 47.47 ATOM 4600 N LEU H 180 69.787 53.526 38.731 1.00 50.75 ATOM 4610 CA LEU H 180 68.364 53.839 38.893 1.00 52.78 ATOM 4611 C LEU H 180 68.364 53.839 38.893 1.00 52.78 ATOM 4612 O LEU H 180 68.364 53.839 38.893 1.00 52.78 ATOM 4613 CB LEU H 180 68.20 54.930 39.962 1.00 53.84 ATOM 4614 CG LEU H 180 68.20 54.930 39.962 1.00 53.84 ATOM 4615 CD1 LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4615 CD1 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 51.72 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 51.72			CA	SER H 177	73.235	55.026	33.425	
ATOM 4596 O SER H 177 72.080 55.223 35.522 1.00 51.38 ATOM 4597 CB SER H 177 74.407 55.908 32.991 1.00 44.75 ATOM 4598 OG SER H 177 75.524 55.632 33.810 1.00 46.10 ATOM 4599 N SER H 178 74.273 54.752 35.630 1.00 46.10 ATOM 4600 CA SER H 178 74.166 54.678 37.081 1.00 44.81 ATOM 4601 C SER H 178 73.181 53.491 37.194 1.00 44.79 ATOM 4602 O SER H 178 72.950 52.789 36.185 1.00 46.89 ATOM 4603 CB SER H 178 73.558 55.966 37.661 1.00 38.93 ATOM 4604 OG SER H 178 72.210 55.735 38.048 1.00 37.26 ATOM 4605 N GLY H 179 72.573 53.265 38.354 1.00 40.62 ATOM 4606 CA GLY H 179 71.710 52.106 38.435 1.00 43.98 ATOM 4607 C GLY H 179 70.216 52.293 38.497 1.00 47.38 ATOM 4608 O GLY H 179 70.216 52.293 38.497 1.00 47.47 ATOM 4600 CA LEU H 180 69.787 53.526 38.731 1.00 50.75 ATOM 4611 C LEU H 180 68.364 53.839 38.893 1.00 52.78 ATOM 4612 O LEU H 180 68.364 53.839 38.893 1.00 52.78 ATOM 4613 CB LEU H 180 68.220 54.930 39.962 1.00 53.84 ATOM 4614 CG LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4615 CD1 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 53.01			С		73.161	54.995	34.948	
ATOM 4597 CB SER H 177 74.407 55.908 32.991 1.00 44.75 ATOM 4598 OG SER H 177 75.524 55.632 33.810 1.00 44.55 ATOM 4599 N SER H 178 74.273 54.752 35.630 1.00 46.10 ATOM 4600 CA SER H 178 74.166 54.678 37.081 1.00 44.81 ATOM 4601 C SER H 178 73.181 53.491 37.194 1.00 44.79 ATOM 4602 O SER H 178 72.950 52.789 36.185 1.00 46.89 ATOM 4603 CB SER H 178 72.210 55.735 38.048 1.00 37.26 ATOM 4605 N GLY H 179 72.573 53.265 38.354 1.00 40.62 ATOM 4606 CA GLY H 179 71.710 52.106 38.435 1.00 43.98 ATOM 4607 C GLY H 179 70.216 52.293 38.497 1.00 47.38 ATOM 4608 O GLY H 179 69.466 51.334 38.293 1.00 47.47 ATOM 4609 N LEU H 180 69.787 53.526 38.731 1.00 50.75 ATOM 4610 CA LEU H 180 69.787 53.526 38.731 1.00 50.75 ATOM 4611 C LEU H 180 68.364 53.839 38.893 1.00 52.78 ATOM 4612 O LEU H 180 68.364 53.839 38.893 1.00 52.78 ATOM 4613 CB LEU H 180 68.220 54.930 39.962 1.00 53.21 ATOM 4614 CG LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4615 CD1 LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4616 CD2 LEU H 180 69.076 55.525 40.137 1.00 47.43 ATOM 4616 CD2 LEU H 180 69.076 55.525 40.137 1.00 47.43 ATOM 4616 CD2 LEU H 180 69.076 55.525 40.137 1.00 53.01 ATOM 4617 N TYR H 181 66.217 54.482 36.785 1.00 53.01					72.080	55.223	35.522	1.00 51.38
ATOM 4598 OG SER H 177 75.524 55.632 33.810 1.00 44.55 ATOM 4599 N SER H 178 74.273 54.752 35.630 1.00 46.10 ATOM 4600 CA SER H 178 74.166 54.678 37.081 1.00 44.81 ATOM 4601 C SER H 178 73.181 53.491 37.194 1.00 44.79 ATOM 4602 O SER H 178 72.950 52.789 36.185 1.00 46.89 ATOM 4603 CB SER H 178 73.558 55.966 37.661 1.00 38.93 ATOM 4604 OG SER H 178 72.210 55.735 38.048 1.00 37.26 ATOM 4605 N GLY H 179 72.573 53.265 38.354 1.00 40.62 ATOM 4606 CA GLY H 179 71.710 52.106 38.435 1.00 43.98 ATOM 4607 C GLY H 179 70.216 52.293 38.497 1.00 47.38 ATOM 4608 O GLY H 179 69.466 51.334 38.293 1.00 47.47 ATOM 4609 N LEU H 180 69.787 53.526 38.731 1.00 50.75 ATOM 4610 CA LEU H 180 68.364 53.839 38.893 1.00 52.78 ATOM 4611 C LEU H 180 67.532 54.245 37.667 1.00 53.37 ATOM 4612 O LEU H 180 68.055 54.669 36.626 1.00 56.69 ATOM 4613 CB LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4615 CD1 LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 53.07						55.908	32.991	1.00 44.75
ATOM 4599 N SER H 178 74.273 54.752 35.630 1.00 46.10 ATOM 4600 CA SER H 178 74.166 54.678 37.081 1.00 44.81 ATOM 4601 C SER H 178 73.181 53.491 37.194 1.00 44.79 ATOM 4602 O SER H 178 72.950 52.789 36.185 1.00 46.89 ATOM 4603 CB SER H 178 73.558 55.966 37.661 1.00 38.93 ATOM 4604 OG SER H 178 72.210 55.735 38.048 1.00 37.26 ATOM 4605 N GLY H 179 72.573 53.265 38.354 1.00 40.62 ATOM 4606 CA GLY H 179 71.710 52.106 38.435 1.00 43.98 ATOM 4607 C GLY H 179 70.216 52.293 38.497 1.00 47.38 ATOM 4608 O GLY H 179 69.466 51.334 38.293 1.00 47.47 ATOM 4609 N LEU H 180 69.787 53.526 38.731 1.00 50.75 ATOM 4610 CA LEU H 180 68.364 53.839 38.893 1.00 52.78 ATOM 4611 C LEU H 180 68.364 53.839 38.893 1.00 52.78 ATOM 4612 O LEU H 180 68.364 53.839 38.893 1.00 52.78 ATOM 4613 CB LEU H 180 68.20 54.245 37.667 1.00 53.37 ATOM 4614 CG LEU H 180 68.220 54.930 39.962 1.00 53.24 ATOM 4615 CD1 LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 57.72 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 57.72 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 57.72 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 57.72 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 57.72 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 57.72 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 57.72 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 57.72 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 57.72 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 57.72 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 57.72 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 57.72 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 57.72 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 57.72 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 57.72 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 57.72 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 57.72 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 57.72 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 57.72 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 57.72 ATOM 4617 N TYR H 181 66.217						55.632	33.810	1.00 44.55
ATOM 4600 CA SER H 178 74.166 54.678 37.081 1.00 44.81 ATOM 4601 C SER H 178 73.181 53.491 37.194 1.00 44.79 ATOM 4602 O SER H 178 72.950 52.789 36.185 1.00 46.89 ATOM 4603 CB SER H 178 73.558 55.966 37.661 1.00 38.93 ATOM 4604 OG SER H 178 72.210 55.735 38.048 1.00 37.26 ATOM 4605 N GLY H 179 72.573 53.265 38.354 1.00 40.62 ATOM 4606 CA GLY H 179 71.710 52.106 38.435 1.00 43.98 ATOM 4607 C GLY H 179 70.216 52.293 38.497 1.00 47.38 ATOM 4608 O GLY H 179 69.466 51.334 38.293 1.00 47.47 ATOM 4609 N LEU H 180 69.787 53.526 38.731 1.00 50.75 ATOM 4610 CA LEU H 180 69.787 53.526 38.731 1.00 50.75 ATOM 4611 C LEU H 180 68.364 53.839 38.893 1.00 52.78 ATOM 4612 O LEU H 180 67.532 54.245 37.667 1.00 53.37 ATOM 4613 CB LEU H 180 68.055 54.669 36.626 1.00 56.69 ATOM 4614 CG LEU H 180 68.220 54.930 39.962 1.00 53.84 ATOM 4615 CD1 LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4615 CD1 LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 55.792							35.630	1.00 46.10
ATOM 4601 C SER H 178 73.181 53.491 37.194 1.00 44.79 ATOM 4602 O SER H 178 72.950 52.789 36.185 1.00 46.89 ATOM 4603 CB SER H 178 73.558 55.966 37.661 1.00 38.93 ATOM 4604 OG SER H 178 72.210 55.735 38.048 1.00 37.26 ATOM 4605 N GLY H 179 72.573 53.265 38.354 1.00 40.62 ATOM 4606 CA GLY H 179 71.710 52.106 38.435 1.00 43.98 ATOM 4607 C GLY H 179 70.216 52.293 38.497 1.00 47.38 ATOM 4608 O GLY H 179 69.466 51.334 38.293 1.00 47.47 ATOM 4609 N LEU H 180 69.787 53.526 38.731 1.00 50.75 ATOM 4610 CA LEU H 180 68.364 53.839 38.893 1.00 52.78 ATOM 4611 C LEU H 180 67.532 54.245 37.667 1.00 53.37 ATOM 4612 O LEU H 180 68.055 54.669 36.626 1.00 56.69 ATOM 4613 CB LEU H 180 68.220 54.930 39.962 1.00 53.84 ATOM 4614 CG LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4615 CD1 LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 55.792								
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ATOM 4603 CB SER H 178 73.558 55.966 37.661 1.00 38.93 ATOM 4604 OG SER H 178 72.210 55.735 38.048 1.00 37.26 ATOM 4605 N GLY H 179 72.573 53.265 38.354 1.00 40.62 ATOM 4606 CA GLY H 179 71.710 52.106 38.435 1.00 43.98 ATOM 4607 C GLY H 179 70.216 52.293 38.497 1.00 47.38 ATOM 4608 O GLY H 179 69.466 51.334 38.293 1.00 47.47 ATOM 4609 N LEU H 180 69.787 53.526 38.731 1.00 50.75 ATOM 4610 CA LEU H 180 68.364 53.839 38.893 1.00 52.78 ATOM 4611 C LEU H 180 67.532 54.245 37.667 1.00 53.37 ATOM 4612 O LEU H 180 68.055 54.669 36.626 1.00 56.69 ATOM 4613 CB LEU H 180 68.220 54.930 39.962 1.00 53.84 ATOM 4614 CG LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4615 CD1 LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 55.792								
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ATOM 4607 C GLY H 179 70.216 52.293 38.497 1.00 47.36 ATOM 4608 O GLY H 179 69.466 51.334 38.293 1.00 47.47 ATOM 4609 N LEU H 180 69.787 53.526 38.731 1.00 50.75 ATOM 4611 C LEU H 180 68.364 53.839 38.893 1.00 52.78 ATOM 4612 O LEU H 180 67.532 54.245 37.667 1.00 53.37 ATOM 4613 CB LEU H 180 68.055 54.669 36.626 1.00 56.69 ATOM 4613 CB LEU H 180 68.220 54.930 39.962 1.00 53.84 ATOM 4614 CG LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4615 CD1 LEU H 180 70.379 56.252 40.137 1.00 47.43 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 57.72	ATOM	4606	CA					
ATOM 4608 O GLY H 179 ATOM 4609 N LEU H 180 ATOM 4610 CA LEU H 180 ATOM 4611 C LEU H 180 ATOM 4612 O LEU H 180 ATOM 4613 CB LEU H 180 ATOM 4614 CG LEU H 180 ATOM 4615 CD1 LEU H 180 ATOM 4615 CD2 LEU H 180 ATOM 4616 CD2 LEU H 180 ATOM 4617 N TYR H 181 ATOM 4618 TYPE TYPE TYPE TYPE TYPE TYPE TYPE TYPE		4607	С	GLY H 179	70.216			
ATOM 4609 N LEU H 180 69.787 53.526 38.731 1.00 50.75 ATOM 4610 CA LEU H 180 68.364 53.839 38.893 1.00 52.78 ATOM 4611 C LEU H 180 67.532 54.245 37.667 1.00 53.37 ATOM 4612 O LEU H 180 68.055 54.669 36.626 1.00 56.69 ATOM 4613 CB LEU H 180 68.220 54.930 39.962 1.00 53.84 ATOM 4614 CG LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4615 CD1 LEU H 180 70.379 56.252 40.137 1.00 47.43 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 51.72					69.466			
ATOM 4610 CA LEU H 180 68.364 53.839 38.893 1.00 52.78 ATOM 4611 C LEU H 180 67.532 54.245 37.667 1.00 53.37 ATOM 4612 O LEU H 180 68.055 54.669 36.626 1.00 56.69 ATOM 4613 CB LEU H 180 68.220 54.930 39.962 1.00 53.84 ATOM 4614 CG LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4615 CD1 LEU H 180 70.379 56.252 40.137 1.00 47.43 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 51.72		4609			69.787	53.526	38.731	
ATOM 4611 C LEU H 180 67.532 54.245 37.667 1.00 53.37 ATOM 4612 O LEU H 180 68.055 54.669 36.626 1.00 56.69 ATOM 4613 CB LEU H 180 68.220 54.930 39.962 1.00 53.84 ATOM 4614 CG LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4615 CD1 LEU H 180 70.379 56.252 40.137 1.00 47.43 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 51.72							38.893	
ATOM 4612 O LEU H 180 68.055 54.669 36.626 1.00 56.69 ATOM 4613 CB LEU H 180 68.220 54.930 39.962 1.00 53.84 ATOM 4614 CG LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4615 CD1 LEU H 180 70.379 56.252 40.137 1.00 47.43 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 51.72							37.667	
ATOM 4613 CB LEU H 180 68.220 54.930 39.962 1.00 53.84 ATOM 4614 CG LEU H 180 69.489 55.161 40.782 1.00 53.21 ATOM 4615 CD1 LEU H 180 70.379 56.252 40.137 1.00 47.43 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 51.72								
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ATOM 4615 CD1 LEU H 180 70.379 56.252 40.137 1.00 47.43 ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 51.72								
ATOM 4616 CD2 LEU H 180 69.076 55.525 42.189 1.00 53.01 ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 51.72								
ATOM 4617 N TYR H 181 66.217 54.127 37.826 1.00 51.72								
ATOM 4017 N 11K N 102								
ATOM 4618 CA TYR H 181 65.258 54.492 36.785 1.00 52.99	ATOM						_	1.00 51.72
	MOTA	4618	CA	TYR H 181	65.258	54.492	30.103	1.00 32.33

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		_		64.796	55.956	36.904	1.00 52.04
ATOM	4619	С	TYR H 181	64.897	56.571	37.972	1.00 52.39
MOTA	4620	0	TYR H 181		53.580	36.865	1.00 51.41
ATOM	4621	CB	TYR H 181	64.030	52.149	36.597	1.00 50.22
MOTA	4622	CG	TYR H 181	64.354		35.344	1.00 51.41
ATOM	4623	CD1		64.802	51.754	37.609	1.00 50.50
ATOM	4624	CD2	TYR H 181	64.287	51.201	35.101	1.00 50.91
ATOM	4625	CE1	TYR H 181	65.188	50.460	37.382	1.00 51.31
ATOM	4626	CE2		64.670	49.895		1.00 52.16
ATOM	4627	CZ	TYR H 181	65.129	49.535	36.119	1.00 56.18
ATOM	4628	OH	TYR H 181	65.599	48.268	35.873	1.00 30.10
ATOM	4629	N	SER H 182	64.287	56.511	35.806	
ATOM	4630	CA	SER H 182	63.791	57.882	35.832	1.00 46.20
ATOM	4631	С	SER H 182	62.726	58.145	34.779	1.00 47.81
ATOM	4632	0	SER H 182	63.028	58.276	33.577	1.00 51.29
ATOM	4633	СВ	SER H 182	64.916	58.884	35.620	1.00 43.89
MOTA	4634	OG	SER H 182	64.372	60.126	35.197	1.00 38.12
ATOM	4635	N	LEU H 183	61.483	58.242	35.241	1.00 45.78
MOTA	4636	CA	LEU H 183	60.362	58.516	34.359	1.00 41.71
ATOM	4637	C	LEU H 183	59.761	59.884	34.653	1.00 41.38
	4638	ŏ	LEU H 183	59.874	60.406	35.774	1.00 35.56
MOTA	4639	CB	LEU H 183	59.294	57.424	34.489	1.00 36.64
ATOM	4640	CG	LEU H 183	58.356	57.360	35.688	1.00 28.40
MOTA		CD1		57.429	58.529	35.643	1.00 32.30
ATOM	4641	CD2		57.552	56.080	35.626	1.00 25.12
MOTA	4642		SER H 184	59.141	60.463	33.627	1.00 41.99
ATOM	4643	N	SER H 184	58.502	61.770	33.755	1.00 42.51
MOTA	4644	CA	SER H 184	57.015	61.640	33.397	1.00 38.33
ATOM	4645	С		56.650	61.058	32.367	1.00 37.13
MOTA	4646	0	SER H 184 SER H 184	59.196	62.795	32.823	1.00 47.05
MOTA	4647	CB		59.530	64.016	33.486	1.00 52.94
MOTA	4648	OG	SER H 184	56.156	62.154	34.267	1.00 35.81
MOTA	4649	N	SER H 185	54.723	62.120	34.007	1.00 33.87
MOTA	4650	CA	SER H 185	54.298	63.515	33.596	1.00 32.29
MOTA	4651	С	SER H 185	54.559	64.493	34.300	1.00 33.60
MOTA	4.652	0	SER H 185	53.949	61.694	35.233	1.00 30.90
MOTA	4653	CB	SER H 185	52.717	61.166	34.791	1.00 29.34
MOTA	4654	OG	SER H 185	53.660	63.623	32.447	1.00 29.91
MOTA	4655	N	VAL H 186	53.291	64.940	31.980	1.00 29.38
MOTA	4656			51.829	65.057	31.601	1.00 30.52
ATOM	4657		VAL H 186		64.057	31.323	1.00 31.30
MOTA	4658		VAL H 186	51.158 54.211		30.789	1.00 25.42
MOTA	4659					29.955	1.00 25.66
MOTA	4660			53.597		31.326	1.00 24.60
MOTA	4661		2 VAL H 186	55.556		31.606	1.00 29.95
ATOM	4662		VAL H 187	51.341		31.267	1.00 26.90
MOTA	4663			49.952			1.00 21.23
MOTA	4664		VAL H 187	49.825		31.028	1.00 22.95
ATOM	4665		VAL H 187	50.510			1.00 30.77
MOTA	4666	CE CE		49.065		32.538 33.657	1.00 29.70
ATOM	4667	Ce	1 VAL H 187	49.754			1.00 29.13
MOTA	4668	3 C	2 VAL H 187	47.663			
MOTA	4669	N	THR H 188	48.924			
MOTA	4670) C <i>I</i>		48.698			
ATOM	4671		THR H 188	47.319			
MOTA	4672	2 0		46.316			
MOTA	4673	3 CI		48.813			
ATOM	467	1 00	31 THR H 188	47.74	68.429		
ATOM	467		32 THR H 188	50.095			
ATOM	467		VAL H 189	47.298			
ATOM	467		A VAL H 189	46.09			
ATOM	467		VAL H 189	45.978	B 73.031	29.680	1.00 30.01

ATOM	4679	0	VAL H 189	46.963	73.539	29.150	1.00 33.04
ATOM	4680	CB	VAL H 189	46.239	71.945	31.889	1.00 20.25
ATOM	4681		VAL H 189	46.593	70.622	32.580	1.00 13.20
ATOM	4682		VAL H 189	47.301	73.036	32.152	1.00 13.81
ATOM	4683	N	PRO H 190	44.782	73.632	29.698	1.00 32.80
	4684	CA	PRO H 190	44.608	74.927	29.045	1.00 32.81
MOTA			PRO H 190	45.471	75.916	29.786	1.00 32.87
ATOM	4685	С		45.581	75.858	30.999	1.00 30.84
ATOM	4686	0	PRO H 190		75.224	29.213	1.00 32.02
ATOM	4687	CB	PRO H 190	43.130			1.00 32.02
MOTA	4688	CG	PRO H 190	42.511	73.903	29.582	
ATOM	4689	CD	PRO H 190	43.547	73.176	30.343	1.00 34.55
ATOM	4690	N	SER H 191	46.122	76.791	29.047	1.00 37.54
ATOM	4691	CA	SER H 191	46.979	77.787	29.659	1.00 44.04
ATOM	4692	С	SER H 191	46.164	78.647	30.610	1.00 47.16
ATOM	4693	0	SER H 191	46.514	78.810	31.789	1.00 50.07
ATOM	4694	CB	SER H 191	47.606	78.663	28.578	1.00 45.27
ATOM	4695	OG	SER H 191	49.019	78.670	28.683	1.00 45.85
ATOM	4696	N	SER H 192	45.068	79.192	30.089	1.00 47.55
ATOM	4697	CA	SER H 192	44.184	80.037	30.876	1.00 49.04
	4698	C	SER H 192	43.838	79.401	32,237	1.00 50.31
MOTA			SER H 192	43.336	80.062	33.137	1.00 56.22
MOTA	4699	.0	SER H 192	42.902	80.288	30.099	1.00 48.76
ATOM	4700	CB		42.902	79.503	30.645	1.00 48.66
ATOM	4701	OG	SER H 192		78.123	32.398	1.00 47.22
MOTA	4702	N	SER H 193	44.109			
ATOM	4703	CA	SER H 193	43.805	77.470	33.648	1.00 48.94
MOTA	4704	С	SER H 193	44.793	77.776	34.763	1.00 49.50
MOTA	4705	0	SER H 193	44.393	78.050	35.894	1.00 52.42
ATOM	4706	CB	SER H 193	43.748	75.948	33.439	1.00 54.10
MOTA	4707	OG	SER H 193	45.036	75.328	33.503	1.00 50.85
ATOM	4708	N	LEU H 194	46.080	77.694	34.448	1.00 49.29
ATOM	4709	CA	LEU H 194	47.137	77.892	35.433	1.00 53.38
ATOM	4710	С	LEU H 194	46.807	78.816	36.587	1.00 56.52
ATOM	4711	0	LEU H 194	47.327	78.662	37.708	1.00 55.89
ATOM	4712	CB	LEU H 194	48.428	78.337	34.739	1.00 52.47
ATOM	4713	CG	LEU H 194	48.913	77.324	33.678	1.00 49.98
ATOM	4714	CD1		49.254	78.057	32.369	1.00 47.94
ATOM	4715	CD2		50.107	76.547	34.187	1.00 43.98
ATOM	4716	N	GLY H 195	45.902	79.751	36.320	1.00 61.53
ATOM	4717	CA	GLY H 195	45.495	80.704	37.342	1.00 64.64
ATOM	4718	C	GLY H 195	44.472	80.187	38.350	1.00 62.10
	4719	0	GLY H 195	44.748	80.084	39.550	1.00 64.18
ATOM			THR H 196	43.294	79.841	37.854	1.00 58.83
MOTA	4720	N	THR H 196	42.222	79.359	38.707	1.00 58.30
ATOM	4721	CA		42.406	77.892	39.144	1.00 61.54
MOTA	4722	С	THR H 196			40.139	1.00 62.29
ATOM	4723	0	THR H 196	41.807	77.443		1.00 53.59
MOTA	4724	CB	THR H 196	40.894	79.475	37.972	1.00 51.45
MOTA	4725	OG1		40.512	78.189	37.474	1.00 50.05
MOTA	4726	CG2		41.031	80.406	36.810	
ATOM	-4727	N	GLN H 197	43.245	77.156	38.414	1.00 61.08
MOTA	4728	CA	GLN H 197	43.455	75.734	38.691	1.00 61.43
MOTA	4729	С	GLN H 197	44.815	75.361	39.258	1.00 60.16
MOTA	4730	0	GLN H 197	45.837	75.961	38.898	1.00 62.71
ATOM	4731	CB	GLN H 197	43.214	74.926	37.410	1.00 63.30
MOTA	4732	CG	GLN H 197	41.955	74.074	37.427	1.00 66.84
ATOM	4733	CD	GLN H 197	42.041	72.931	38.428	1.00 70.67
ATOM	4734		L GLN H 197	42.725	73.034	39.465	1.00 71.23
ATOM	4735		GLN H 197	41.347	71.830	38.129	1.00 70.19
MOTA	4736	N	THR H 198	44.814	74.381	40.159	1.00 55.50
MOTA	4737	CA	THR H 198	46.047	73.892	40.771	1.00 54.41
ATOM	4738	C	THR H 198	46.276	72.468	40.290	1.00 53.06
AI OP	2/50	_	1111 II 100		, _ , 100		

MOTA	4739	0	THR H	198	45.329	71.806	39.885	1.00 56.34
ATOM	4740	СВ	THR H		45.947	73.840	42.305	1.00 53.52
ATOM	4741		THR H		47.128	73.230	42.848	1.00 51.30
			THR H		44.743	73.011	42.716	1.00 55.70
ATOM	4742		TUK I	100	47.521	71.997	40.359	1.00 48.30
MOTA	4743	N	TYR H			70.638	39.938	1.00 38.72
MOTA	4744	CA	TYR H		47.859			
ATOM	4745	С	TYR H		48.927	70.004	40.813	1.00 38.96
ATOM	4746	0	TYR H	199	49.958	70.626	41.136	1.00 39.64
ATOM .	4747	CB	TYR E	199	48.384	70.628	38.526	1.00 31.48
MOTA	4748	CG	TYR F	199	47.455	71.208	37.523	1.00 25.85
MOTA	4749	CD1	TYR F		46.244	70.600	37.242	1.00 23.65
ATOM	4750	CD2			47.810	72.343	36.812	1.00 24.96
ATOM	4751	CE1			45.402	71.110	36.266	1.00 23.30
	4752	CE2	TYR H		46.983	72.863	35.834	1.00 25.93
MOTA	4753	CZ	TYR I		45.780	72.248	35.562	1.00 25.42
ATOM					44.965	72.811	34.597	1.00 29.31
ATOM	4754	OH	TYR F				41.188	1.00 34.68
ATOM	4755	N	ILE F		48.690	68.758		
ATOM	4756	CA	ILE F		49.648	68.061	42.004	1.00 35.18
MOTA	4757	С	ILE F		49.821	66.699	41.417	1.00 37.66
ATOM	4758	0	ILE H	1 200	48.862	66.090	40.941	1.00 41.08
ATOM	4759	CB	ILE F	1 200	49.176	67.867	43.451	1.00 36.74
ATOM	4760	CG1	İLE E	1 200	48.011	68.816	43.774	1.00 40.23
ATOM	4761	CG2	ILE I	1 200	50.370	68.033	44.390	1.00 36.00
ATOM	4762	CD1			48.426	70.256	44.199	1.00 45.79
ATOM	4763	N	CYS '		51.060	66.231	41.418	1.00 36.86
ATOM	4764	CA		H 201	51.353	64.902	40.933	1.00 34.08
ATOM	4765	C		H 201	51.527	64.051	42.164	1.00 31.45
				H 201	51.986	64.540	43.207	1.00 29.21
ATOM	4766	0				64.874	40.087	1.00 36.91
ATOM	4767	CB		H 201	52.636		40.839	1.00 33.27
ATOM	4768	SG		H 201	54.291	65.157		
ATOM	4769	N		H 202	51.184	62.779	42.039	1.00 29.88
ATOM	4770	CA		H 202	51.305	61.888	43.160	1.00 35.87
ATOM	4771	С		H 202	52.198	60.690	42.896	1.00 39.56
MOTA	4772	Ο.	ASN	H 202	51.709	59.626	42.497	1.00 43.82
MOTA	4773	CB	ASN	H 202	49.929	61.414	43.554	1.00 37.70
ATOM	4774	CG	ASN	H 202	48.861	62.423	43.223	1.00 40.65
ATOM	4775	OD1	ASN	H 202	47.998	62.171	42.374	1.00 38.96
MOTA	4776	ND2	ASN	H 202	48.901	63.580	43.905	1.00 41.87
ATOM	4777	N	VAL	н 203	53.499	60.845	43.131	1.00 40.14
ATOM	4778	CA		H 203	54.401	59.734	42.913	1.00 40.33
ATOM	4779	C		н 203	54.298	58.793	44.085	1.00 43.46
ATOM	4780	ō		H 203	54.273	59.210	45.236	1.00 38.99
MOTA	4781	СВ		H 203	55.862	60.175	42.794	1.00 38.94
ATOM	4782		VAL		56.759	59.160	43.455	1.00 34.59
			VAL		56.244	60.291	41.347	1.00 42.40
MOTA	4783				54.212	57.508	43.780	1.00 51.06
ATOM	4784	N		H 204			44.826	1.00 55.70
ATOM	4785	CA		H 204	54.162	56.504		1.00 56.74
ATOM	4786	С		H 204	55.109	55.345	44.479	
MOTA	4787	0		H 204	54.868	54.602	43.505	1.00 56.97
MOTA	4788	СВ		н 204	52.760	55.948	44.986	1.00 60.55
MOTA	4789	CG		H 204	52.769	54.592	45.668	1.00 66.10
MOTA	4790		. ASN		52.635	53.544	45.023	1.00 69.86
MOTA	4791	ND2	. ASN	H 204	52.951	54.605	46.983	1.00 66.35
ATOM	4792	N	HIS	н 205	56.175	55.200	45.271	1.00 54.92
ATOM	4793	CA		н 205	57.152	54.138	45.367	1.00 53.62
ATOM	4794	С		н 205	57.095	53.041	46.140	1.00 54.64
ATOM	4795	Ö		H 205	57.989	52.930	46.988	1.00 52.54
ATOM	4796	СВ		H 205	58.557	54.713	45.009	1.00 50.11
	4797	CG		H 205	59.578	53.713	44.577	1.00 54.92
ATOM			HIS			52.619	43.799	1.00 52.68
MOTA	4798	ממ.	ruto	11 205	59.270	22.013	23.133	1.55 52.00

MOTA	4799	CD2	HIS H	205	60.910	53.633	44.826	1.00 57.93
ATOM	4800		HIS H		60.362	51.905	43.588	1.00 54.43
	4801	NE2			61.371	52.501	44.199	1.00 57.40
ATOM					56.044	52.220	46.070	1.00 55.01
ATOM	4802	N	LYS H				47.017	1.00 53.01
MOTA	4803	CA	LYS H		55.811	51.128		
ATOM	4804	С	LYS H	206	57.058	50.372	47.413	1.00 51.75
ATOM'	4805	0	LYS H	206	57.316	50.192	48.587	1.00 50.80
ATOM	4806	CB	LYS H	206	54.779	50.153	46.458	1.00 56.16
ATOM	4807	CG	LYS H		53.426	50.806	46.176	1.00 63.16
	4808	CD	LYS H		52.253	49.858	46.471	1.00 66.98
MOTA					50.906	50.450	46.012	1.00 68.34
MOTA	4809	CE	LYS H				44.569	1.00 71.64
MOTA	4810	NZ	LYS H		50.892	50.863		
ATOM	4811	N	PRO H		57.837	49.896	46.439	1.00 52.82
MOTA	4812	CA	PRO H	207	59.074	49.153	46.731	1.00 53.46
ATOM	4813	С	PRO H	207	59.999	49.844	47.732	1.00 53.76
MOTA.	4814	0	PRO H	207	61.074	49.351	48.054	1.00 51.71
ATOM	4815	СВ	PRO H		59.725	49.003	45.370	1.00 54.47
ATOM	4816	CG	PRO H		58.550	48.980	44.428	1.00 57.98
ATOM	4817	CD	PRO H		57.582	49.984	44.992	1.00 54.81
						50.990	48.231	1.00 55.95
ATOM	4818	N	SER H		59.577			1.00 58.88
ATOM	4819	CA	SER H		60.380	51.704	49.196	
ATOM	4820	С	SER H		59.427	52.455	50.123	1.00 61.85
MOTA	4821	0	SER H		59.861	53.289	50.922	1.00 65.55
ATOM	4822	CB	SER H	208	61.322	52.678	48.474	1.00 59.21
ATOM	4823	OG	SER H		60.599	53.528	47.599	1.00 57.38
ATOM	4824	N	ASN H	209	58.132	52.165	50.007	1.00 61.89
ATOM	4825	CA	ASN H	209	57.119	52.819	50.835	1.00 64.05
ATOM	4826	С	ASN H	209	57.006	54.294	50.426	1.00 62.67
ATOM	4827	0	ASN H		56.136	55.027	50.875	1.00 61.92
ATOM	4828	СВ	ASN H		57.523	52.690	52.317	1.00 70.30
ATOM	4829	CG	ASN H		57.011	53.846	53.184	1.00 77.03
ATOM	4830		ASN H		55.799	54.040	53.319	1.00 82.61
ATOM	4831	ND2			57.932	54.614	53.783	1.00 77.56
	4832	N N	THR H		57.899	54.724	49.553	1.00 62.72
ATOM					57.920	56.103	49.112	1.00 64.35
ATOM	4833	CA	THR H			56.613	48.537	1.00 63.62
ATOM	4834	C	THR H		56.598			
ATOM	4835	0	THR H		55.834	55.878	47.911	1.00 62.06
ATOM	4836	CB	THR H		59.046	56.309	48.055	1.00 68.43
MOTA	4837	OG1			60.331	56.223	48.696	1.00 68.77
ATOM	4838	CG2			58.903	57.680	47.350	1.00 69.68
ATOM	4839	N	LYS H	211	56.355	57.900	48.751	1.00 62.65
MOTA	4840	CA	LYS H		55.166	58.563	48.246	1.00 62.78
ATOM	4841	С	LYS H	211	55.386	60.071	48.367	1.00 60.81
ATOM	4842	0	LYS H	211	55.775	60.558	49.424	1.00 60.72
ATOM	4843	СВ	LYS H		53.933	58.143	49.045	1.00 65.13
ATOM	4844	CG	LYS H		52.985	59.290	49.382	1.00 69.93
ATOM	4845	CD	LYS H		51.810	59.376	48.408	1.00 74.60
ATOM	4846	CE	LYS H		50.725	60.320	48.940	1.00 77.09
ATOM	4847	NZ	LYS H		49.554	60.484	48.022	1.00 78.23
						60.801	47.282	1.00 57.00
ATOM	4848	N	VAL H		55.139			
ATOM	4849	CA	VAL H		55.321	62.241	47.265	1.00 51.78
ATOM	4850	С	VAL H		54.186	62.876	46.473	1.00 53.82
ATOM	4851	0	VAL H		53.615	62.244	45.573	1.00 53.90
ATOM	4852	CB	VAL H		56.643	62.611	46.580	1.00 48.57
MOTA	4853		VAL H		56.767	64.132	46.474	1.00 45.95
ATOM	4854	CG2	VAL H	212	57.810	61.993	47.332	1.00 46.45
MOTA	4855	N	ASP H	213	53.872	64.126	46.806	1.00 53.81
ATOM	4856	CA	ASP H		52.824	64.873	46.120	1.00 50.44
ATOM	4857	С	ASP H		53.387	66.228	45.756	1.00 47.45
ATOM	4858	Ö	ASP H		53.358	67.153	46.567	1.00 46.58
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a most	4859	CB A	ASP H	213	51.618	65.045	47.032	1.00 54.71
MOTA	4860	CG I	ASP H	213	50.958	63.724	47.361	1.00 60.65
MOTA	4861	001 7	ASP H	213	50.820	62.922	46.416	1.00 63.96
MOTA	4862	002 7	ASP H	213	50.581	63.473	48.539	1.00 65.23
MOTA	4863	N]	LYS H	214	53.938	66.319	44.548	1.00 44.87
MOTA	4864	CA I	LYS H	214	54.523	67.564	44.045	1.00 40.91
MOTA		C	LYS H	214	53.437	68.473	43.464	1.00 41.13
ATOM	4865 4866	0	LYS H	214	52.699	68.090	42.540	1.00 38.51
ATOM		CB :	LYS H	214	55.577	67.261	42.971	0.00 36.30
ATOM	4867	CG :	LYS H	214	56.818	68.146	43.013	0.00 31.06
ATOM	4868	CD	LYS H	214	56.594	69.452	42.271	0.00 27.12
ATOM	4869	CE	LYS H	214	56.680	70.640	43.213	0.00 24.68
MOTA	4870 4871	NZ	LYS H	214	58.019	70.740	43.855	0.00 22.71
MOTA		N Z	LYS H	215	53.317	69.666	44.042	1.00 39.91
MOTA	4872	N	LYS H	215	52.345	70.626	43.563	1.00 36.01
MOTA	4873	CA C	LYS H	215	53.092	71.326	42.438	1.00 37.92
MOTA	4874	0	LYS H	215	54.040	72.097	42.671	1.00 40.05
ATOM	4875	O CB	LYS H	215	51.970	71.619	44.665	0.00 31.54
MOTA	4876		LYS H	215	51.067	72.756	44.203	0.00 25.87
ATOM	4877	CG	LYS H		50.307	73.369	45.370	0.00 21.61
MOTA	4878	CD	LYS H		51.074	74.532	45.981	0.00 18.92
MOTA	4879	CE	LYS H	215	50.517	74.934	47.303	0.00 16.76
MOTA	4880	ΝZ	VAL H	216	52.712	71.029	41.208	1.00 35.59
ATOM	4881	N	VAL H		53.392	71.689	40.122	1.00 35.52
ATOM	4882	CA C	VAL H	216	52.795	73.084	40.016	1.00 36.65
ATOM	4883	0	VAL H		51.581	73.256	39.903	1.00 36.76
MOTA	4884	CB	VAL I		53.219	70.936	38.776	1.00 35.14
MOTA	4885	CD CC1	VAL I	216	54.228	71.475	37.743	1.00 34.25
MOTA	4886	CG2	VAL I	1 216	53.414	69.430	38.985	1.00 33.03
ATOM	4887	N N	GLU F		53.655	74.085	40.079	1.00 38.53
ATOM	4888 4889	CA	GLU I	1 217	53.194	75.448	39.944	1.00 41.66
MOTA	4890	C	GLU I		53.998	76.092	38.816	1.00 42.43
MOTA	4891	Ö		H 217	55.163	75.760	38.599	1.00 44.71
ATOM ATOM	4892	СВ	GLU I	н 217	53.389	76.195	41.255	1.00 46.70
ATOM	4893	CG	GIU I	н 217	52.895	75.405	42.456	1.00 51.58
ATOM	4894	CD		H 217	53.124	76.144	43.751	1.00 57.53
ATOM	4895			н 217	54.047	75.741	44.501	1.00 60.61
MOTA	4896			н 217	52.385			1.00 60.96
ATOM	4897		PRO	H 218	53.386			1.00 41.38
MOTA	4898			н 218	54.034	77.720		1.00 39.54
MOTA	4899		PRO	н 218	55.139			
MOTA	4900			H 218	54.923			
ATOM	4901	. СВ		Н 218	52.901			
MOTA	4902	CG	PRO	H 218	51.971			
MOTA	4903		PRO	н 218	52.012			
MOTA	4904	N		н 219	56.307			
ATOM	4905	CA		н 219	57.446			
MOTA	4906	5 C		н 219	57.923			
ATOM	490	7 0		H 219	57.183			
MOTA	4908	3 CB		H 219	58.554			
MOTA	4909	9 CG		н 219	58.776			
MOTA	491		LYS	H 219	60.25			
ATOM	491			Н 219	60.77			
ATOM	491			Н 219	61.28			
MOTA				н 219	59.00			
ATOM	491		ASP		72.19			
MOTA					70.77		9 12.80	
MOTA			ASP		70.06 70.68			
MOTA			ASP		70.68			
MOTA	491	8 CB	ASP	L 1	70.00	, ,,,,,		

ATOM	4919	CG	ASP	L	1		71.209	29.003	16.421	1.00	13.71
ATOM	4920		ASP		1		71.817	27.921	16.276		15.42
	4921		ASP		1		71.018	29.569	17.522		12.52
MOTA											16.07
ATOM	4922	N	ILE		2		68.778	28.972	12.654		
MOTA	4923	CA	ILE		2		67.993	29.547	11.564		10.83
ATOM	4924	С	ILE	L	2		67.645	30.983	11.933	1.00	9.71
ATOM	4925	0	ILE	L	2		67.471	31.277	13.114	1.00	17.95
ATOM	4926	СВ	ILE	L	2		66.706	28.782	11.353	1.00	5.76
ATOM	4927	CG1	ILE		2		66.995	27.290	11.345	1.00	2.00
		CG2	ILE		2		66.050	29.217	10.040	1.00	6.77
ATOM	4928										
ATOM	4929	CD1	ILE		2		66.123	26.536	10.403	1.00	2.00
MOTA	4930	N	ΛAT		3		67.580	31.893	10.972	1.00	4.57
MOTA	4931	CA	VAL	L	3		67.248	33.282	11.298	1.00	8.48
MOTA	4932	С	VAL	L	3		66.012	33.707	10.556	1.00	12.15
ATOM	4933	0	VAL	L	3		65.979	33.625	9.324	1.00	14.35
ATOM	4934	CB	VAL		3		68.406	34.218	10.947	1.00	2.00
			VAL		3			35.605	11.357	1.00	2.00
MOTA	4935	CG1					68.125				
ATOM	4936	CG2	VAL		3		69.625	33.757	11.657	1.00	6.47
MOTA	4937	N	ΡEΛ		4		64.981	34.131	11.304	1.00	
MOTA	4938	CA	LEÙ	L	4		63.719	34.540	10.668	1.00	11.09
MOTA	4939	С	LEU	L	4		63.639	36.011	10.632	1.00	5.86
ATOM	4940	0	LEU	L	4		63.900	36.642	11.631	1.00	4.39
ATOM	4941	СВ		L	4		62.499	33.987	11.405	1.00	9.45
	4942	CG	LEU		4		62.567	32.469	11.566	1.00	7.43
ATOM							61.365				
ATOM	4943	CD1	LEU		4			31.954	12.275	1.00	
ATOM	4944	CD2	LEU		4		62.674	31.835	10.230	1.00	2.00
ATOM	4945	N	THR		5	•	63.297	36.552	9.475	1.00	3.63
ATOM	4946	CA	THR	\mathbf{r}	5		63.225	37.988	9.320	1.00	7.93
ATOM	4947	С	THR	\mathbf{L}	5		61.827	38.284	8.981	1.00	11.72
ATOM	4948	0	THR	L	5		61.349	37.748	7.972	1.00	13.99
ATOM	4949	CB	THR		5		64.084	38.433	8.167	1.00	3.55
ATOM	4950	OG1	THR		5		65.444	38.373	8.577	1.00	
		CG2	THR		5		63.776	39.835	7.778	1.00	2.00
ATOM	4951										
ATOM	4952	N	GLN		6		61.157	39.101	9.808	1.00	
MOTA	4953	CA	GLN	\mathbf{r}	6		59.752	39.426	9.515	1.00	8.12
ATOM	4954	С	GLN	\mathbf{r}	6		59.707	40.703	8.745	1.00	2.00
ATOM	4955	0	GLN	\mathbf{L}	6		60.699	41.300	8.545	1.00	4.55
ATOM	4956	CB	GLN	L	6		58.919	39.597	10.794	1.00	9.77
MOTA	4957	CG	GLN	L	6		59.080	38.481	11.800	1.00	14.36
ATOM	4958	CD	GLN	T,	6		58.082	38.562	12.911	1.00	10.53
ATOM	4959	OE1	GLN	L	6		58.217	37.898	13.933	1.00	
ATOM	4960	NE2	GLN	L	6		57.054	39.358	12.706	1.00	10.21
	4961				7		58.535	41.140		1.00	4.88
ATOM		N	SER						8.365		
ATOM	4962	CA	SER		7		58.379	42.365	7.616	1.00	6.77
ATOM	4963	С	SER		7		56.899	42.583	7.272	1.00	8.70
ATOM	4964	0	SER	${f L}$	7		56.184	41.654	6.885	1.00	
ATOM	4965	CB	SER	L	7		59.185	42.279	6.333	1.00	6.50
ATOM	4966	OG	SER	L	7		58.467	42.822	5.246	1.00	6.57
ATOM	4967	N	PRO		8		56.432	43.830	7.339	1.00	3.61
ATOM	49.68	CA	PRO		8		57.178	45.030	7.704	1.00	2.00
	4969	C			8		57.448	44.882	9.144	1.00	2.00
ATOM			PRO								
ATUM	4970	0	PRO		8		56.993	43.924	9.735	1.00	3.30
MOTA	4971	CB	PRO		8		56.194	46.154	7.455	1.00	3.69
ATOM	4972	CG	PRO	L	8		54.887	45.509	7.579	1.00	3.51
ATOM	4973	CD	PRO	L	8		55.047	44.150	6.985	1.00	2.00
MOTA	4974	N	ALA	L	9		58.224	45.782	9.711	1.00	2.00
ATOM	4975	CA	ALA		9		58.480	45.684	11.113	1.00	6.43
ATOM	4976	C	ALA		9		57.229	46.260	11.776	1.00	10.39
ATOM	4977	Ō	ALA		9		56.770	45.762	12.814	1.00	14.56
ATOM	4978	СВ	ALA		9		59.707	46.467	11.447	1.00	8.18
AT ON	3210	СБ	TH	ע	9		33.101	10.107	11.33/	1.00	0.10

MOTA	4979	N	THR	L	10	56.674	47.297	11.154	1.00	8.37
MOTA	4980	CA	THR	L	10	55.458	47.924	11.640	1.00	6.71
ATOM	4981	С	THR	L	10	54.484	47.914	10.505	1.00	8.71
MOTA	4982	0	THR	\mathbf{r}	10	54.802	48.391	9.421	1.00	8.94
MOTA	4983	CB	THR	L	10	55.607	49.377	11.925	1.00	8.52
MOTA	4984	OG1	THR	L	10	56.548	49.590	12.982		13.94
ATOM	4985	CG2	THR	L	10	54.258	49.931	12.305		14.46
MOTA	4986	N	LEU	L	11	53.284	47.412	10.767		11.31
MOTA	4987	CA	LEU	L	11	52.230	47.362	9.764	1.00	6.53
ATOM	4988	С	LEU	L	11	51.142	48.166	10.436	1.00	4.26
MOTA	4989	0	LEU		11	50.690	47.818	11.533	1.00	2.00
ATOM	4990	CB	LEU		11	51.789	45.924	9.530	1.00	2.00
MOTA	4991	CG	LEU		11	50.810	45.617	8.403	1.00	2.00
ATOM	4992	CD1	LEU	L	11	49.640	46.496	8.546	1.00	7.38
ATOM	4993	CD2	LEU		11	51.412	45.875	7.080	1.00	8.83
MOTA	4994	N	SER	\mathbf{L}	12	50.814	49.297	9.821	1.00	3.65
ATOM	4995	CA	SER	L	12	49.782	50.183	10.326	1.00	3.33
MOTA	4996	С	SER	L	12	48.612	49.960	9.426	1.00	4.08
ATOM	4997	0	SER	L	12	48.632	50.265	8.236	1.00	3.46
MOTA	4998	CB	SER	L	12	50.221	51.637	10.254	1.00	2.64
MOTA	4999	OG	SER	${f L}$	12	51.458	51.770	10.924	1.00	15.57
ATOM	5000	N	VAL	L	13	47.571	49.446	10.041	1.00	6.91
MOTA	5001	CA	VAL	L	13	46.357	49.118	9.367	1.00	6.05
ATOM	5002	С	VAL	L	13	45.230	49.733	10.211	1.00	9.74
ATOM	5003	0	VAL	L	13	45.419	50.107	11.393	1.00	8.97
MOTA	5004	CB	VAL	L	13	46.274	47.571	9.311	1.00	2.07
ATOM	5005	CG1	VAL	L	13	45.715	47.050	10.601	1.00	6.98
ATOM	5006	CG2	VAL	L	13	45.490	47.100	8.081	1.00	4.23
MOTA	5007	N	SER	L	14	44.056	49.855	9.615	1.00	11.23
MOTA	5008	CA	SER	L	14	42.910	50.390	10.347	1.00	12.44
ATOM	5009	С	SER	L	14	41.986	49.212	10.579	1.00	10.13
MOTA	5010	0	SER	L	14	42.119	48.188	9.896	1.00	5.23
MOTA	5011	СВ	SER	${f L}$	14	42.184	51.439	9.517	1.00	16.10
ATOM	5012	OG	SER	L	14	41.966	50.970	8.190	1.00	23.29
MOTA	5013	N	PRO	\mathbf{L}	15	41.072	49.315	11.572	1.00	8.94
ATOM	5014	CA		\mathbf{r}	15	40.162	48.186	11.806	1.00	3.06
ATOM	5015	С	PRO		15	39.425	48.134	10.506	1.00	2.00
ATOM	5016	0	PRO	\mathbf{L}	15	39.252	49.158	9.846	1.00	2.00
MOTA	5017	CB	PRO	L	15	39.275	48.645	12.952	1.00	2.00
MOTA	5018	CG	PRO		15	40.036	49.787	13.611	1.00	2.00
ATOM	5019	CD	PRO		15	40.845	50.424	12.514	1.00	5.96
MOTA	5020	N	GLY		16	39.004	46.953	10.117	1.00	3.62
ATOM	5021	CA	GLY		16	38.316	46.857	8.857	1.00	10.65
ATOM	5022	С	GLY		16	39.298	46.703	7.731	1.00	15.49
MOTA	5023	0	GLY		16	38.904	46.376	6.622		19.78
MOTA	5024	N	GLU		17	40.576	46.942	7.999		21.46
MOTA	5025	CA	GLU		17	41.591	46.809	6.949		21.52
MOTA	5026	С	GLU		17	42.165	45.404	7.058		18.00
ATOM	5027	0	GLU		17	42.264	44.855	8÷157		14.41
MOTA	5028	СВ	GLU		17	42.708	47.867	7.132		24.29
MOTA	5029	CG	GLU		17	43.479	48.209	5.860		28.56
MOTA	5030	CD	GLU		17	44.579	49.301	6.028		38.15
MOTA	5031	OE1			17	44.733	49.876	7.159		32.69
MOTA	5032	OE2			17	45.285	49.561	4.992		34.71
MOTA	5033	N	ARG		18	42.527	44.819	5.926		14.53
MOTA	5034	CA	ARG		18	43.123	43.494	5.954	1.00	
ATOM	5035	C	ARG		18	44.651	43.674	6.095		16.56
ATOM	5036	0	ARG		18	45.267	44.579	5.529		20.30
ATOM	5037	CB	ARG		18	42.786	42.733	4.677		19.27
MOTA	5038	CG	ARG	L	18	43.802	41.685	4.273	1.00	21.28

ATOM '	5039	CD	ARG I	. 1	В	43.617	41.374	2.803	1.00 25.64
ATOM	5040	NE	ARG I	. 1	A	43.659	39.941	2.539	1.00 34.48
						43.973	39.416	1.358	1.00 39.15
MOTA	5041	CZ	ARG I						
ATOM	5042	NHl	ARG I	. 1	В	44.269	40.227	0.347	1.00 38.92
ATOM	5043	NH2	ARG I	1	В	43.993	38.088	1.192	1.00 35.47
ATOM	5044	N	ALA I			45.271	42.833	6.886	1.00 10.65
						46.682			1.00 9.07
ATOM	5045	CA	ALA I				42.967	7.078	
MOTA	5046	С	ALA I	1	9	47.326	41.615	6.948	1.00 12.61
ATOM	5047	0	ALA I	1:	9	46.799	40.611	7.456	1.00 9.23
ATOM	5048	CB	ALA I	1	9	46.947	43.551	8.451	1.00 5.55
	5049					48.478	41.589	6.274	1.00 15.43
MOTA		N	THR I						
ATOM	5050	CA	THR I			49.212	40.343	6.120	1.00 12.28
ATOM	5051	С	THR I	2	0	50.730	40.584	6.352	1.00 11.21
ATOM	5052	0	THR I	2 د	0	51.339	41.396	5.693	1.00 17.14
ATOM	5053	СВ	THR I			48.943	39.758	4.763	1.00 4.13
ATOM	5054	OG1	THR I			50.111	39.875	3.995	1.00 17.20
ATOM	5055	CG2	THR I		0	47.961	40.551	4.017	1.00 5.25
ATOM	5056	N	ILE I	2	1	51.289	39.934	7.364	1.00 9.66
ATOM	5057	CA	ILE I		1	52.697	40.023	7.747	1.00 12.49
	5058	C	ILE I			53.409	38.851	7.067	1.00 17.65
ATOM									
ATOM	5059	0	ILE 1		1	52.761	37.853	6.698	1.00 23.64
MOTA	5060	CB	ILE I	2 د	1	52.858	39.764	9.219	1.00 13.92
ATOM	5061	CG1	ILE 1	2 د	1	52.169	40.833	10.004	1.00 7.29
ATOM	5062	CG2	ILE I			54.347	39.580	9.589	1.00 17.38
						51.715			1.00 17.50
ATOM	5063	CDI	ILE I				40.206	11.305	
ATOM	5064	N	SER I			54.735	38.922	6.959	1.00 13.91
MOTA	5065	CA	SER I	2 ن	2	55.457	37.863	6.281	1.00 6.93
ATOM	5066	С	SER I	L 2	2	56.689	37.581	7.053	1.00 3.62
ATOM	5067	0	SER I			57.282	38.483	7.629	1.00 5.96
									1.00 4.60
MOTA	5068	CB	SER I			55.837	38.322	4.918	
ATOM	5069	OG	SER I			56.921	39.201	5.119	1.00 26.84
MOTA	5070	N	CYS 1	ւ 2	3	57.079	36.321	7.051	1.00 2.80
ATOM -	5071	CA	CYS I	ւ 2	3	58.208	35.858	7.822	1.00 8.05
ATOM	5.072	С	CYS I			59.225	35.297	6.891	1.00 16.48
ATOM	5073	ō	CYS I			58.900	34.942	5.745	1.00 19.04
ATOM	5074	CB	CYS I			57.735	34.767	8.761	1.00 7.37
MOTA	5075	SG	CYS I	Ն 2	3	58.978	34.045	9.875	1.00 13.30
MOTA	5076	N	ARG :	ե 2	4	60.444	35.132	7.400	1.00 22.13
ATOM	5077	CA	ARG :	Ն 2	4	61.507	34.638	6.547	1.00 20.26
ATOM	5078	C	ARG :			62.599	33.764	7.087	1.00 21.29
MOTA	5079	0	ARG 1			63.380	34.198	7.933	1.00 23.81
MOTA	5080	CB	ARG :	և 2	4	62.137	35.800	5.923	1.00 20.04
ATOM	5081	CG	ARG :	ւ 2	4	61.885	35.752	4.516	1.00 19.68
ATOM	5082	CD	ARG :	և 2	4	63.108	36.156	3.856	1.00 14.74
MOTA	5083	NE	ARG :			63.005	35.431	2.670	1.00 12.59
ATOM	5084	CZ	ARG :			62.571	35.960	1.562	1.00 19.71
ATOM	5085	NH1	ARG :	ւ 2	4	62.194	37.260	1.508	1.00 2.00
ATOM	5086	NH2	ARG :	Ն 2	4	62.471	35.113	0.546	1.00 26.73
ATOM	5087	N	ALA :	և 2	5	62.693	32.549	6.565	1.00 19.31
ATOM	5088	CA	ALA			63.702	31.632	7.063	1.00 20.19
									1.00 16.95
MOTA	5089	Ĉ	ALA		5	65.016	31.691	6.313	
ATOM	5090	0	ALA :	ւ 2	5	65.047	31.708	5.059	1.00 9.27
ATOM	5091	CB	ALA :	ւ 2	5	63.161	30.202	7.064	1.00 22.08
ATOM	5092	N	SER :		6	66.099	31.690	7.098	1.00 14.28
ATOM	5093	CA	SER		6	67.437	31.730	6.525	1.00 13.68
MOTA	5094	С	SER :		6	67.629	30.436	5.761	1.00 11.94
MOTA	5095	0	SER :		6	68.622	30.261	5.096	1.00 16.75
MOTA	5096	CB	SER :	ւ 2	6	68.536	31.877	7.586	1.00 11.81
MOTA	5097	OG	SER		6	68.217	31.203	8.776	1.00 19.04
ATOM	5098	N	GLN		7	66.666	29.535	5.857	1.00 10.51
	2020	••	C 211		•	55.000	27.55	5.00,	

					,		28.263	5.132	1.00 12.90
MOTA	5099	CA	GLN L	27		56.708	27.663	5.072	1.00 13.76
MOTA	5100	С	GLN L	27		55.311 54.457	27.997	5.877	1.00 18.14
MOTA	5101	0	GLN L	27		67.640	27.278	5.806	1.00 10.99
MOTA	5102	CB	GLN L	27		67.199	26.872	7.154	1.00 17.93
MOTA	5103	CG	GLN L	27		68.103	25.822	7.765	1.00 20.49
MOTA	5104	CD	GLN L	27		69.127	26.130	8.396	1.00 17.17
ATOM	5105	OE1	GLN L	27		67.712	24.567	7.601	1.00 21.57
MOTA	5106	NE2	GLN L	27 28		65.059	26.776	4.131	1.00 10.25
ATOM	5107	N	ARG L			63.735	26.200	4.052	1.00 12.67
ATOM	5108	CA	ARG L	28 28		63.463	25.541	5.412	1.00 18.66
ATOM	5109	С	ARG L	28		64.410	25.089	6.099	1.00 24.62
MOTA	5110	0	ARG L	28		63.696	25.109	2.991	1.00 15.57
MOTA	5111	CB	ARG L	28		63.566	25.573	1.560	1.00 28.33
MOTA	5112	CG	ARG L	28		63.538	24.363	0.595	1.00 40.54
MOTA	5113	CD	ARG L	28		63.498	24.764	-0.819	1.00 51.53
MOTA	5114	NE	ARG L	28		62.382	24.841	-1.553	1.00 54.66
MOTA	5115	CZ	ARG L	28		61.200	24.542	-1.006	1.00 56.72
MOTA	5116	NHT	ARG L	28		62.441	25.228	-2.830	1.00 51.53
MOTA	5117		ARG L	29		62.189	25.472	5.802	1.00 14.28
MOTA	5118	И	VAL L			61.835	24.801	7.035	1.00 9.03
MOTA	5119	CA	VAL L	29		60.550	24.078	6.790	1.00 10.86
ATOM	5120	C	VAL L	29		59.814	23.748	7.717	1.00 15.68
ATOM	5121	0	VAL L	29		61.643	25.756	8.187	1.00 5.01
MOTA	5122	CB	VAL L	29		62.958	26.359	8.514	1.00 13.48
MOTA	5123		L VAL L	29		60.635	26.829	7.851	1.00 2.00
MOTA	5124		VAL L	29 30		60.264	23.832	5.528	1.00 6.69
MOTA	5125	N	SER L			59.046	23.143	5.183	1.00 6.97
MOTA	5126	CA	SER L	30		59.462	21.901	4.448	1.00 5.68
MOTA	5127	С	SER L	30		60.179	21.983	3.486	1.00 17.15
MOTA	5128	0	SER L			58.230	24.006	4.242	1.00 10.67
ATOM	5129	CB	SER L			57.902	23.245	3.080	1.00 13.20
MOTA	5130	OG	SER L			59.023	20.744	4.858	1.00 2.00
ATOM	5131	N	SER L SER L			59.448	19.607	4.128	1.00 6.03
MOTA	5132	CA	SER L			58.311	19.071	3.290	1.00 8.46
ATOM	5133	С	SER L			57.522	19.883	2.825	1.00 11.25
MOTA	5134	O CB	_			60.023		5.082	1.00 6.72
MOTA	5135		_			58.985		5.753	1.00 24.05
MOTA	5136 5137		SER I			58.220		3.076	1.00 12.34
MOTA	5138					57.183		2.189	1.00 13.27
MOTA	5139		SER I			55.773		2.643	1.00 14.25
ATOM ATOM	5140		SER I			54.920	16.769	1.861	1.00 15.86
ATOM	5140					57.539	15.779	1.664	1.00 14.67
ATOM	5142					57.338	14.809	2.668	1.00 11.90
MOTA	5143		THR I			55.488		3.898	1.00 19.09
ATOM	5144					54.087	17.365	4.280	1.00 21.21
ATOM	5145		THR I			53.743	18.540	5.139	
ATOM	5146		THR			52.610	18.989	5.116	- 00 10 01
MOTA	5147					53.730	16.137	5.066	
ATOM	5.148		31 THR			54.623	15.089	4.727	
ATOM	5149		32 THR			52.392	15.683	4.729	
ATOM	5150		TYR			54.709	9 19.029		
MOTA	5153					54.455			
ATOM	5152					55.513			
ATOM	515					56.608	3 21.027	6.213	
MOTA	515					54.39		8.241	
MOTA	515					53.39	8 18.581		
ATOM	515		D1 TYR			53.30		7.633	
ATOM	515		D2 TYR			52.55			
ATOM	515		E1 TYR			52.40		7.87	1.00 38.76
111 011		-							

									0 000	1 00	25 00
ATOM	5159	CE2	TYR	L	34		51.646	17.573	9.882	1.00	
ATOM	5160	CZ	TYR :	L	34		51.584	16.507	8.992	1.00	41.39
ATOM	5161	ОН	TYR	τ.	34		50.723	15.448	9.165	1.00	48.94
					35		55.170	22.437	7.169		13.97
MOTA	5162	N	SER								
ATOM :	5163	CA	SER		35		56.093	23.534	7.170		13.32
ATOM	5164	С	SER		35		56.193	23.795	8.645		13.45
MOTA	5165	0	SER	L	35		55.211	24.173	9.237	1.00	15.74
ATOM ·	5166	СВ	SER		35		55.456	24.728	6.489	1.00	15.62
					35		55.094	24.419	5.151		28.46
ATOM	5167	OG	SER								11.93
MOTA	5168	N	TYR		36		57.363	23.671	9.250		
MOTA	5169	CA	TYR		36		57.445	23.881	10.689	1.00	8.44
MOTA	5170	С	TYR	L	36		57.511	25.344	11.140	1.00	13.41
ATOM	5171	0	TYR	L	36		58.470	25.758	11.805	1.00	17.14
ATOM	5172	CB	TYR	τ,	36		58.625	23.098	11.191	1.00	6.00
	5173	CG	TYR		36		58.297	21.638	11.074	1.00	7.38
MOTA							57.964	20.890	12.196	1.00	5.84
MOTA	5174	CD1	TYR		36						
MOTA	5175	CD2	TYR		36		58.237	21.018	9.836	1.00	3.43
MOTA	5176	CE1	TYR		36		57.581	19.559	12.089	1.00	5.27
ATOM	5177	CE2	TYR	L	36		57.863	19.700	9.722	1.00	2.00
ATOM	5178	CZ	TYR		36		57.539	18.975	10.847	1.00	5.53
ATOM	5179	OH	TYR		36		57.196	17.649	10.718	1.00	12.18
							56.482	26.112	10.775		11.86
MOTA	5180	N	MET		37						
ATOM	5181	CA		L	37		56.377	27.530	11.111	1.00	10.43
MOTA	5182	С	MET	L	37		55.106	27.780	11.962	1.00	9.37
ATOM	5183	0	MET	L	37		54.050	27.171	11.758	1.00	5.92
ATOM	5184	CB	MET	L	37		56.309	28.380	9.808	1.00	10.36
ATOM	5185	CG		L	37		57.577	29.105	9.360	1.00	8.70
	5186	SD		L	37		58.310	30.089	10.671		18.45
ATOM											23.14
MOTA	5187	CE		Г	37		59.527	30.885	9.837		
ATOM	5188	N		L	38		55.199	28.683	12.922		10.35
MOTA	5189	CA	HIS	L	38		54.026	29.016	13.735		11.62
ATOM	5190	С	HIS	L	38		54.008	30.495	14.020	1.00	14.37
MOTA	5191	0	HIS	L	38		55.058	31.147	14.077	1.00	15.85
ATOM	5192	СВ	HIS		38		54.060	28.275	15.033	1.00	5.05
ATOM	5193	CG	HIS		38		54.685	26.946	14.901	1.00	4.42
									14.410	1.00	9.28
MOTA	5194	ND1			38		53.997	25.862			
MOTA	5195			L	38		55.949	26.532	15.116	1.00	6.25
ATOM	5196	CE1	HIS	Г	38	•	54.814	24.831	14.319		11.20
ATOM	5197	NE2	HIS	L	38		56.009	25.214	14.744		12.56
MOTA	5198	N	TRP	L	39		52.817	31.023	14.229	1.00	12.16
ATOM	5199	CA		L	39		52.702	32.435	14.497	1.00	12.72
ATOM	5200	C		L	39		52.079	32.753	15.848	1.00	8.81
	5201	ŏ			39		51.214	32.027	16.330		12.08
ATOM				L							
ATOM	5202	CB		Г	39		51.889	33.068	13.402		14.02
MOTA	5203	CG	TRP	Ь	39		52.474	32.985	12.059	1.00	3.77
ATOM	5204	CD1	TRP	L	39		52.177	32.063	11.116	1.00	2.00
MOTA	5205	CD2	TRP	L	39		53.157	34.028	11.392	1.00	2.00
ATOM	5206	NE1			39		52.591	32.478	9.885	1.00	2.00
ATOM	5207	CE2			39		53.200	33.694	10.025	1.00	2.00
							53.731		11.817	1.00	7.31
ATOM	5208	CE3			39			35.237			
ATOM	5209	CZ2			39		53.787	34.513	9.065	1.00	5.17
MOTA	5210	CZ3	TRP	L	39		54.323	36.069	10.860	1.00	
ATOM	5211	CH2	TRP	L	39		54.341	35.697	9.492	1.00	11.48
MOTA	5212	N	TYR		40		52.559	33.823	16.465	1.00	4.39
ATOM	5213	CA	TYR		40		52.068	34.258	17.754	1.00	5.10
							51.747	35.731	17.713	1.00	7.99
MOTA	5214	С	TYR		40						
ATOM	5215	0	TYR		40		52.329	36.493	16.937	1.00	8.11
MOTA	5216	CB	TYR		40		53.117	34.003	18.833	1.00	2.00
$MOTA_{i}$	5217	CG	TYR		40		53.556	32.572	18.877	1.00	2.00
ATOM	5218	CD1	TYR	L	40		53.424	31.800	20.025	1.00	5.44

MOTA	5219	CD2	TYR	L	40	54.178	32.009	17.786	1.00	7.70
ATOM	5220	CE1	TYR	L	40	53.924	30.487	20.079		12.12
ATOM	5221	CE2	TYR		40	54.676	30.718	17.821	1.00	12.50
ATOM	5222	CZ	TYR		40	54.552	29.954	18.972	1.00	12.40
ATOM	5223	OH	TYR		40	55.038	28.657	19.015	1.00	14.41
			GLN		41	50.764	36.139	18.498	1.00	7.39
ATOM	5224	N				50.489	37.556	18.569	1.00	8.60
ATOM	5225	CA	GLN		41			20.018	1.00	5.74
MOTA	5226	С	GLN		41	50.874	37.763			4.20
MOTA	5227	0	GLN	Г	41	50.814	36.787	20.798	1.00	
MOTA	5228	CB	GLN		41	49.009	37.836	18.369		14.63
MOTA	5229	CG	${\tt GLN}$		41	48.228	37.804	19.670		22.31
ATOM	5230	CD	GLN	\mathbf{L}	41	46.959	38.553	19.592		23.09
ATOM	5231	OEl	GLN	\mathbf{L}	41	46.702	39.248	18.616		28.42
ATOM	5232	NE2	GLN	L	41	46.132	38.414	20.615	1.00	30.08
ATOM	5233	N	GLN		42	51.347	38.958	20.368	1.00	2.00
ATOM	5234	CA	GLN		42	51.661	39.215	21.758	1.00	6.57
ATOM	5235	C	GLN		42	51.314	40.622	22.074	1.00	11.43
	5236	0	GLN		42	51.764	41.518	21.375	1.00	9.78
ATOM					42	53.123	39.015	22.088	1.00	6.01
ATOM	5237	CB	GLN			53.593	39.824	23.295	1.00	7.29
MOTA	5238	CG	GLN		42					13.57
MOTA	5239	CD	GLN		42	54.961	39.383	23.802		
ATOM	5240	OEl			42	55.985	39.565	23.103	1.00	11.87
MOTA	5241	NE2	GLN		42	55.004	38.808	25.025		12.24
MOTA	5242	N	LYS	Г	43	50.517	40.799	23.142		20.07
ATOM	5243	CA	LYS	L	43	50.082	42.118	23.614	1.00	16.37
ATOM	5244	С	LYS	L	43	51.071	42.657	24.654		16.94
ATOM	5245	0	LYS		43	51.849	41.933	25.274	1.00	17.41
ATOM	5246	CB	LYS	L	43	48.687	42.047	24.228	1.00	11.37
MOTA	5247	CG	LYS		43	47.654	41.425	23.354	1.00	7.30
ATOM	5248	CD	LYS		43	47.044	42.486	22.502	1.00	4.14
ATOM	5249	CE	LYS		43	45.570	42.195	22.216	1.00	14.56
ATOM	5250	NZ	LYS		43	45.164	40.836	21.657		15.12
	5251	N	PRO		44	51.032	43.950	24.879		16.08
MOTA	5252	CA	PRO		44	51.958	44.523	25.855	1.00	
MOTA					44	51.678	43.910	27.197		21.90
MOTA	5253	С	PRO			50.535	43.661	27.486	1.00	
ATOM	5254	0	PRO		44		45.999	25.839		16.67
ATOM	5255	CB	PRO		44	51.621		24.594		20.76
ATOM	5256	CG	PRO		44	50.889	46.193		1.00	
MOTA	5257	CD	PRO		44	50.129	44.948	24.321		
MOTA	5258	N	GLY		45	52.701	43.636	27.996	1.00	
ATOM	5259	CA	GLY		45	52.483	43.062	29.308		19.69
MOTA	5260	С	GLY		45	52.182	41.571	29.297	1.00	23.93
MOTA	5261	0	GLY	L	45	52.481	40.874	30.262	1.00	
ATOM	5262	N	GLN	L	46	51.615	41.061	28.208	_	25.03
MOTA	5263	CA	GLN	\mathbf{r}	46	51.257	39.647	28.146		30.28
MOTA	5264	С	GLN	L	46	52.230	38.759	27.378		26.33
ATOM	5265	0	GLN	L	46	53.068	39.250	26.653	1.00	32.91
MOTA	5266	CB	GLN	L	46	49.859	39.515	27.550	1.00	37.06
ATOM	5267	CG	GLN		46	48.981	40.717	27.787	1.00	42.85
ATOM	5268	CD	GLN		46	47.530	40.327	27.945	1.00	49.56
ATOM	5269	OE1			46	46.885	39.898	26.988		51.85
ATOM	5270	NE2			46	47005	40.469	29.161		56.29
	5271	N	PRO		47	52.135	37.437	27.536		18.48
ATOM					47	53.051	36.573	26.817		19.31
ATOM	5272	CA	PRO				36.277	25.495		21.39
ATOM	5273	С	PRO		47	52.391				26.66
ATOM	5274	0	PRO		47	51.224	36.588	25.330 27.710		
MOTA	5275	CB	PRO		47	53.123	35.340			23.50
MOTA	5276	CG	PRO		47	51.892	35.373	28.540		16.21
MOTA	5277	CD	PRO		47	51.199	36.658	28.351		16.86
MOTA	5278	N	PRO) L	48	53.132	35.717	24.525	1.00	19.72

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ATOM	5279	CA	PRO		48					
MOTA	5280	С	PRO	L	48	51.416	34.388	23.324	1.00	14.75
ATOM	5281	0	PRO	L	48	51.314	33.627	24.291	1.00	16.65
ATOM	5282	СВ	PRO		48	53.771	34.662	22.527	1.00	19.03
						54.957	35.158	23.214		21.74
MOTA	5283	CG	PRO		48					
MOTA	5284	CD	PRO	L	48	54.560	35.403	24.637		21.08
MOTA	5285	N	LYS	L	49	50.535	34.411	22.330	1.00	9.25
ATOM	5286	CA	LYS	L	49	49.362	33.552	22.285	1.00	6.69
ATOM	5287	C		L	49	49.464	32.920	20.932	1.00	5.48
						49.552	33.614	19.910	1.00	3.74
ATOM	5288	0	LYS		49					12.07
ATOM	5289	CB	LYS		49	48.089	34.404	22.363		
MOTA	5290	CG	LYS	${f L}$	49	46.747	33.661	22.505	1.00	15.77
MOTA	5291	CD	LYS	L	49	46.214	33.046	21.201	1.00	20.20
MOTA	5292	CE	LYS	I.	49	45.676	31.610	21.462	1.00	27.38
ATOM	5293	NZ	LYS		49	46.673	30.466	21.467	1.00	22.17
			LEU		50	49.397	31.604	20.901	1.00	5.72
MOTA	5294	N								
MOTA	5295	CA	LEU		50	49.542	30.915	19.628	1.00	5.67
ATOM	5296	С	LEU	L	50	48.363	31.164	18.751	1.00	6.25
ATOM	5297	0	LEU	L	50	47.244	30.975	19.182	1.00	16.43
ATOM	5298	CB	LEU	L	50	49.670	29.401	19.851	1.00	2.00
ATOM	5299	CG	LEU		50	49.345	28.473	18.685	1.00	2.00
		CD1		L	50	49.900	29.016	17.366	1.00	2.05
MOTA	5300	-								
MOTA	5301	CD2	LEU		50	49.918	27.121	19.016	1.00	2.00.
ATOM	5302	N	LEU	L	51	48.591	31.560	17.514	1.00	3.42
ATOM	5303	CA	LEU	ひ	51	47.474	31.724	16.619	1.00	2.00
ATOM	5304	С	LEU	L	51	47.502	30.629	15.570	1.00	2.00
ATOM	5305	0	LEU		51	46.547	29.877	15.428	1.00	4.60
	5306	СВ	LEU		51	47.526	33.041	15.914	1.00	2.00
ATOM										7.08
MOTA	5307	CG	LEU		51	47.001	34.186	16.738	1.00	
MOTA	5308	CD1	LEU		51	48.020	35.302	16.730	1.00	
MOTA	5309	CD2	LEU	${f L}$	51	45.709	34.677	16.133	1.00	3.81
ATOM	5310	N	ILE	L	52	48.617	30.503	14.861	1.00	3.04
ATOM	5311	CA	ILE	L	52	48.690	29.511	13.810	1.00	6.07
ATOM	5312	С	ILE		52	49.870	28.582	14.015	1.00	9.00
	5313	o			52	50.925	29.018	14.507	1.00	12.24
ATOM			ILE							
MOTA	5314	CB	ILE		52	48.741	30.177	12.445	1.00	2.95
ATOM	5315	CG1	ILE		52	47.394	30.877	12.205	1.00	8.27
MOTA	5316	CG2	ILE	L	52	49.003	29.126	11.378	1.00	2.00
MOTA	5317	CD1	ILE	L	52	47.442	32.115	11.350	1.00	5.99
ATOM	5318	N	LYS	L	53	49.670	27.290	13.729	1.00	6.06
ATOM	5319	CA	LYS		53	50.746	26.314	13.886	1.00	11.71
	5320	C	LYS		53	50.924	25.583	12.587	1.00	13.09
MOTA										
MOTA	5321	0	LYS	L	53	49.952	25.329	11.892	1.00	16.93
MOTA	5322	CB	LYS		53	50.419	25.313	14.977	1.00	
MOTA	5323	CG	LYS	\mathbf{L}	53	49.235	24.452	14.633		23.29
MOTA	5324	CD	LYS	L	53	48.302	24.306	15.827	1.00	27.05
MOTA	5325	CE	LYS		53	48.817	23.253	16.818	1.00	25.73
ATOM	5326	NZ	LYS		53	47.692	22.443	17.324		27.44
							25.226	12.280		10.74
MOTA	5327	N	TYR		54	52.165				
ATOM	5328	CA	TYR		54	52.482	24.554	11.044	1.00	5.10
MOTA	5329	C	TYR	${ t L}$	54	52.071	25.387	9.847	1.00	2.74
MOTA	5330	0	TYR	\mathbf{L}	54	51.413	24.908	8.928	1.00	2.00
ATOM	5331	CB	TYR		54	51.847	23.173	11.004	1.00	4.97
ATOM	5332	CG	TYR		54	52.260	22.321	12.186	1.00	10.42
ATOM	5333	CD1			54		22.485	13.413	1.00	8.86
						51.633				
ATOM	5334	CD2			54	53.314	21.392	12.094	1.00	6.88
MOTA	5335	CE1			54	52.041	21.757	14.518	1.00	11.69
ATOM	5336	CE2			54	53.729	20.653	13.202	1.00	4.24
MOTA	5337	CZ	TYR	L	54	53.092	20.842	14.407	1.00	4.81
MOTA	5338	ОН	TYR		54	53.476	20.135	15.528	1.00	8.19
			- 411	_		55.4.5	100			

ATOM	5339	N	ALA L	55		52.484	26.648	9.874	1.00 2.00
ATOM	5340	CA	ALA L	55		52.249	27.538	8.765	1.00 3.58
ATOM	5341	C	ALA L	55		50.838	27.864	8.367	1.00 8.56
	5342	Ö	ALA L	55		50.550	28.985	7.922	1.00 10.89
MOTA			ALA L	55		52.938	26.978	7.578	1.00 12.22
MOTA	5343	СВ				49.937	26.905	8.513	1.00 9.04
MOTA	5344	N	SER L	56				8.075	1.00 7.89
MOTA	5345	CA	SER L	56		48.592	27.193		1.00 7.19
ATOM	5346	С	SER L	56		47.393	26.699	8.869	
MOTA	5347	0	SER L	56		46.273	26.985	8.480	1.00 9.14
ATOM	5348	CB	SER L	56		48.412	26.761	6.636	1.00 5.70
ATOM	5349	OG	SER L	56		47.728	25.532	6.624	1.00 7.03
ATOM	5350	N	ASN L	57		47.576	26.010	9.983	1.00 7.47
ATOM	5351	CA	ASN L	57		46.406	25.557	10.752	1.00 11.60
ATOM	5352	C	ASN L	57		46.199	26.411	11.965	1.00 11.89
	5353	Ö	ASN L	57		47.144	26.597	12.746	1.00 12.27
MOTA			ASN L		į	46.577	24.129	11.216	1.00 17.33
ATOM	5354	CB				47.516	23.380	10.340	1.00 29.60
MOTA	5355	CG	ASN L	57			23.300	9.161	1.00 25.00
ATOM	5356	OD1	ASN L	57		47.227			1.00 33.30
MOTA	5357			57		48.675	23.037	10.889	
ATOM	5358	N	TEA P	58		44.961	26.908	12.110	1.00 10.44
MOTA	5359	CA.	LEU L	58		44.567	27.763	13.215	1.00 4.65
MOTA	5360	С	LEU L	58		44.662	26.959	14.482	1.00 6.24
ATOM	5361	0	LEU L	58		44.309	25.777	14.522	1.00 8.31
ATOM	5362	CB	LEU L	58		43.140	28.243	13.000	1.00 3.90
ATOM	5363	CG	LEU L	58		43.004	29.669	12.494	1.00 6.17
ATOM	5364	CD1	LEU L	- 58		42.304	29.675	11.149	1.00 8.67
	5365	CD2	LEU L	58		42.217	30.457	13.483	1.00 7.99
MOTA			GLU L	59		45.201	27.578	15.512	1.00 7.88
ATOM	5366	N				45.303	26.897	16.791	1.00 10.86
MOTA	5367	CA	GLU L	59			26.822	17.267	1.00 13.98
MOTA	5368	С	GLU L	59		43.864			1.00 15.12
ATOM	5369	0	GLU L	59		43.000	27.580	16.785	
MOTA	5370	CB	GLU L	59		46.120	27.735	17.785	1.00 6.90
MOTA	5371	CG	GLU L	59		45.903	27.345	19.221	1.00 3.53
MOTA	5372	CD	GLU L	59		46.397	25.949	19.472	1.00 8.01
MOTA	5373	OE1	GLU L	59		46.908	25.666	20.579	1.00 12.33
MOTA	5374	OE2	GLU L	59		46.280	25.129	18.545	1.00 12.63
ATOM	5375	N	SER L	60		43.581	25.967	18.232	1.00 16.88
MOTA	5376	CA	SER L	60		42.203	25.923	18.691	1.00 26.81
ATOM	5377	С	SER L	60		41.798	27.211	19.425	1.00 27.08
ATOM	5378	O	SER L			42.481	27.662	20.354	1.00 30.34
ATOM	5379	СВ	SER L			41.951	24.729	19.605	1.00 34.24
ATOM	5380	OG	SER L			40.704	24.130	19.268	1.00 48.27
ATOM	5381	N	GLY L			40.684	27.811	19.001	1.00 27.36
ATOM	5382	CA	GLY L			40.226		19.658	1.00 26.30
						40.559	30.292	18.915	1.00 27.58
ATOM	5383	С	GLY L			39.937	31.330	19.128	1.00 33.06
ATOM	5384	0	GLY I				30.235	18.041	1.00 22.80
ATOM	5385	N	VAL I			41.548			1.00 22.00
MOTA	5386	CA	VAL I			41.855	31.422	17.308	
MOTA	5387	С	VAL I			40.688	31.640	16.356	1.00 10.83
ATOM	5388	0	VAL I			40.145	30.704	15.775	1.00 12.67
MOTA	5389	CB	VAL I	, 62		43.131	31.251	16.504	1.00 17.87
ATOM	5390	CG1	. VAL I	62		43.406	32.522	15.620	1.00 15.26
MOTA	5391	CG2	VAL I	. 62		44.255	30.963	17.458	1.00 19.17
MOTA	5392	N	PRO I			40.261	32.880	16.222	1.00 2.00
ATOM	5393	CA	PRO I			39.174	33.299	15.354	1.00 2.00
ATOM	5394	C	PRO I			39.552	33.081	13.881	1.00 7.37
ATOM	5395	Ö	PRO I			40.711		13.499	1.00 13.88
ATOM	5396	CB	PRO I			39.043		15.664	1.00 2.00
		CG				39.770		16.982	1.00 2.00
ATOM	5397		PRO I			40.836		16.978	1.00 2.00
MOTA	5398	CD	PRO I	63		40.036	JJ. JJ.	±0.510	1.00 0.20

ATOM	5399	N	ALA	L	64	38.569	32.821	13.035	1.00	7.85
MOTA	5400	CA	ALA		64	38.831	32.571	11.623	1.00	4.65
MOTA	5401	С	ALA		64	39.453	33.687	10.803	1.00	7.99
ATOM	5402	0	ALA		64	39.864	33.418	9.688		10.79
MOTA	5403	CB	ALA		64	37.568	32.138	10.940	1.00	2.00
MOTA	5404	N	ARG		65	39.483	34,939	11.270		11.51
MOTA	5405	CA	ARG		65	40.088	35.966	10.407		14.72
MOTA	5406	С	ARG		65	41.506	35.560	10.174		16.81
ATOM	5407	0	ARG		65	41.989	35.593	9.025		19.51
MOTA	5408	CB	ARG		65	40.096	37.371	11.018	1.00	16.63
ATOM	5409	CG	ARG		65	39.542	37.522	12.421		18.86
MOTA	5410	CD	ARG		65	39.445	39.019	12.712		18.52
MOTA	5411	NE	ARG		65	39.972	39.412	14.015		12.94
ATOM	5412	CZ	ARG		65	39.525	38.923	15.156	1.00	2.67
ATOM	5413		ARG		65	38.540	38.044	15.128		10.37
ATOM	5414		ARG		65	40.013	39.349	16.306	1.00	2.00
ATOM	5415	N	PHE		66	42.135	35.123	11.275		14.02
ATOM	5416	CA	PHE		66	43.520	34.677	11.282	1.00	8.45
ATOM	5417	С	PHE		66	43.706	33.496	10.392	1.00	8.17
ATOM	5418	0	PHE		66	42.994	32.493	10.494	1.00	9.95
ATOM	5419	CB	PHE		66	43.948	34.252	12.655	1.00	8.44
ATOM	5420	CG	PHE		66	44.058 45.087	35.362	13.572	1.00	5.24 2.00
MOTA	5421	CD1			66 66		36.270	13.424	1.00	
MOTA	5422 5423	CD2 CE1	PHE		66 66	43.074 45.155	35.573 37.413	14.525 14.208	1.00	6.51 12.79
ATOM	5424	CE2	PHE		66	43.111	36.710	15.324	1.00	13.33
ATOM ATOM	5424	CZ	PHE		66	44.165	37.650	15.164	1.00	17.39
ATOM	5426	N N	SER		67	44.722	33.606	9.559	1.00	7.28
ATOM .	5427	CA	SER		67	45.044	32.566	8.634	1.00	6.50
ATOM	5428	C	SER		67	46.544	32.712	8.335	1.00	5.77
ATOM	5429	0	SER		67	47.158	33.736	8.676	1.00	4.14
ATOM	5430	СВ	SER		67	44.165	32.701	7.402	1.00	2.00
ATOM	5431	OG	SER		67	44.861	33.380	6.406	1.00	
ATOM	5432	N	GLY		68	47.130	31.665	7.757	1.00	8.60
ATOM	5433	CA	GLY		68	48.548	31.656	7.427	1.00	13.42
ATOM	5434	С	GLY	Ь	68	48.946	30.739	6.267	1.00	17.60
MOTA	5435	0	GLY		68	48.425	29.618	6.125	1.00	17.28
MOTA	5436	N	SER		69	49.886	31.198	5.438	1.00	20.35
MOTA	5437	CA	SER	L	69	50.352	30.372	4.324	1.00	18.53
ATOM	5438	С	SER	L	69	51.871	30.504	4.112	1.00	19.39
MOTA	5439	0	SER	L	69	52.556	31.239	4.841	1.00	22.79
MOTA	5440	CB	SER	L	69	49.614	30.724	3.040	1.00	9.10
MOTA	5441	OG	SER		69	50.537	31.296	2.142		20.65
MOTA	5442	N	GLY		70	52.394	29.777	3.119		18.72
ATOM	5443	CA	GLY		70	53.809	29.839	2.827		13.60
MOTA	5444	С	GLY		70	54.396	28.470	2.770		12.78
MOTA	5445	0	GLY		70	53.669	27.522	2.874		15.99
ATOM	5446	N	SER		71	55.714	28.377	2.625		18.45
	5447	CA	SER		71	56.443	27.099	2.517		12.87
MOTA	5448	С	SER		71	57.915	27.400	2.259		14.03
ATOM	5449	0	SER		71	58.298	28.482	1.776		14.83
ATOM	5450	CB	SER		71	55.969	26.264	1.341	1.00	8.79
ATOM	5451	OG	SER		71	56.425	26.866	0.143	1.00	5.44
ATOM	5452	N	GLY		72	58.753	26.436	2.581		12.34
ATOM	5453	CA	GLY		72	60.153	26.672	2.380		13.90
ATOM	5454	С	GLY		72	60.704	27.761	3.283		14.12
ATOM	5455	0	GLY		72 73	60.986	27.507	4.463		13.61
ATOM	5456 5457	N Ca	THR		73 73	60.876	28.966	2.745		12.10
ATOM	5457	CA	THR		73 72	61.466	30.031	3.544		13.12
MOTA	5458	С	THR	ь	73	60.649	31.264	3.750	1.00	12.99

ATOM	5459	0	THR L	73	61.070	32.181	4.493	1.00 13.61
ATOM	5460	СВ	THR L	73	62.784	30.474	2.933	1.00 14.11
ATOM	5461	OG1	THR L	73	62.595	30.763	1.537	1.00 7.34
ATOM	5462	CG2	THR L	73	63.788	29.388	3.105	1.00 13.79
			ASP L	74	59.497	31.297	3.086	1.00 12.75
ATOM	5463	N					3.189	1.00 15.25
MOTA	5464	CA	ASP L	74	58.606	32.448		
ATOM	5465	С	ASP L	74	57.198	32.057	3.655	1.00 14.41
ATOM	5466	0	ASP L	74	56.588	31.092	3.149	1.00 7.58
ATOM	5467	CB	ASP L	74	58.536	33.204	1.848	1.00 16.77
ATOM	5468	CG	ASP L	74	59.849	33.875	1.487	1.00 15.03
MOTA	5469	OD1	ASP L	74	60.223	34.862	2.163	1.00 18.58
ATOM	5470	OD2	ASP L	74	60.500	33.407	0.535	1.00 6.29
ATOM	5471	N	PHE L	75	56.713	32.802	4.655	1.00 13.56
MOTA	5472	CA	PHE L	75	55.398	32.559	5.213	1.00 9.48
ATOM	5473	С	PHE L	75	54.727	33.853	5.532	1.00 11.42
ATOM	5474	0	PHE L	75	55.373	34.862	5.803	1.00 13.28
ATOM	5475	СВ	PHE L	75	55.510	31.710	6.478	1.00 7.71
ATOM	5476	CG	PHE L	75	56.196	30.401	6.242	1.00 7.70
ATOM	5477	CD1	PHE L	75	57.578	30.270	6.416	1.00 8.15
ATOM	5478		PHE L	75	55.484	29.340	5.710	1.00 5.35
ATOM	5479	CE1	PHE L	75	58.224	29.110	6.045	1.00 5.69
	5480	CE2	PHE L	75	56.110	28.184	5.342	1.00 3.41
ATOM		CZ	PHE L	75	57.481	28.063	5.503	1.00 9.76
MOTA	5481				53.407	33.805	5.505	
ATOM	5482	N	THR L	76				
ATOM	5483	CA	THR L	76	52.582	34.956	5.811	1.00 12.70
ATOM	5484	С	THR L	76	51.531	34.543	6.835	1.00 12.23
ATOM	5485	0	THR L	76	51.230	33.361	7.037	1.00 14.69
MOTA	5486	CB	THR L	76	51.838	35.400	4.606	1.00 10.87
ATOM	5487	OG1		76	51.244	34.237	4.009	1.00 15.93
ATOM	5488	CG2	THR L	76	52.757	36.089	3.621	1.00 7.75
ATOM	5489	N	LEU L	77	50.974	35.548	7.478	1.00 10.11
ATOM	5490	CA	TEA T	77	49.938	35.372	8.468	1.00 6.41
ATOM	5491	С	TEA T	77	48.998	36.515	8.146	1.00 5.30
MOTA	5492	0	TEA T	77	49.435	37.657	8.057	1.00 6.82
MOTA	5493	CB	LEU L	77	50.552	35.538	9.865	1.00 6.27
ATOM	5494	CG	LEU L	77	49.631	35.736	11.058	1.00 4.19
MOTA	5495	CD1	TEA T	77	49.417	37.252	11.309	1.00 2.00
MOTA	5496	CD2	TEO P	77	48.341	34.973	10.765	1.00 6.56
MOTA	5497	N	THR L	78	47.720	36.265	7.941	1.00 4.96
ATOM	5498	CA	THR L	78	46.888	37.431	7.646	1.00 11.19
MOTA	5499	С	THR L	78	45.494	37.433	8.214	1.00 11.38
MOTA	5500	0	THR L	78	44.747	36.470	8.043	1.00 19.02
ATOM	5501	CB	THR L	78	46.746	37.673	6.151	1.00 11.56
ATOM	5502	OG1	THR L	78	45.346	37.816	5.814	1.00 10.69
MOTA	5503	CG2	THR L	78	47.384	36.507	5.391	1.00 12.49
ATOM	5504	N	ILE L	79	45.160	38.539	8.874	1.00 9.69
MOTA	5505	CA	ILE L	79	43.853	38.779	9,479	1.00 5.35
ATOM	5506	С	ILE L	79	42.948	39.252	8.351	1.00 2.47
ATOM	5507	0	ILE L	79	43.264	40.231	7.710	1.00 7.75
ATOM	5508	СВ	ILE L	79	44.005	39.882	10.533	1.00 4.04
ATOM	5509	CG1		79	45.213	39.533	11.421	1.00 2.00
ATOM	5510	CG2		79	42.739	40.025	11.311	1.00 14.42
ATOM	5511	CD1	ILE L	79	45.385	40.345	12.673	1.00 2.00
ATOM	5512	N	SER L	80	41.814	38.611	8.100	1.00 5.46
		CA		80	40.980	39.064	6.961	1.00 9.15
MOTA	5513		SER L					1.00 9.15
MOTA	5514	C	SER L	80	40.428	40.480	7.077	
ATOM	5515	0	SER L	80	40.164	41.121	6.066	1.00 17.07
MOTA	5516	CB	SER L	80	39.812	38.107	6.650	1.00 8.10
ATOM	5517	OG	SER L	80	39.150	37.604	7.809	1.00 22.18
MOTA	5518	N	SER L	81	40.224	40.954	8.296	1.00 8.01

MOTA	5519	CA	SER L	81	3	9.747	42.309	8.522	1.00	8.94
ATOM	5520	С	SER L	81	4	0.032	42.557	10.012	1.00	7.34
						9.481	41.916	10.899	1.00	5.70
ATOM	5521	0	SER L	81						
MOTA	5522	CB	SER L	81		8.288	42.400	8.187	1.00	4.33
MOTA	5523	OG	SER L	81	3.	7.614	41.593	9.119	1.00	25.30
MOTA	5524	N	VAL L	82	4	1.010	43.417	10.244	1.00	5.46
ATOM	5525	CA	VAL L			1.466	43.780	11.559	1.00	9.97
						0.323	44.217	12.476		17.09
MOTA	5526	C	VAL L	82						
MOTA	5527	0	VAL L			9.378	44.890	12.032		23.59
MOTA	5528	CB	VAL L	82	4:	2.489	44.935	11.403	1.00	10.16
ATOM	5529	CG1	VAL L	82	4:	2.884	45.543	12.769	1.00	7.30
ATOM	5530	CG2	VAL L		4	3.686	44.431	10.640	1.00	4.76
MOTA	5531	N	GLU L	83		0.441	43.858	13.757		14.70
						9.475		14.781	1.00	10.99
MOTA	5532	CA	CTÁ T				44.226			
MOTA	5533	С	GLU L			0.303	44.841	15.909	1.00	10.25
MOTA.	5534	0	GLU L	83		1.444	44.464	16.141	1.00	16.25
ATOM	5535	CB	GLU L	83	3	8.713	43.001	15.247	1.00	15.00
ATOM	5536	CG	GLU L			8.265	42.138	14.096	1.00	23.65
ATOM	5537	CD	GLU L			7.104	41.218	14.450	1.00	34.29
										34.32
MOTA	5538	OEl	GLU L			6.846	40.983			
MOTA	5539	OE2	GLU L	83		6.463	40.735	13.473	1.00	36.45
ATOM	5540	N	PRO L	84	3	9.755	45.808	16.628	1.00	8.95
ATOM	5541	CA	PRO L	84	4	0.549	46.412	17.690	1.00	8.82
ATOM	5542	С	PRO L			1.381	45.484	18.512	1.00	8.56
ATOM	5543	Ö	PRO L			2.509	45.807	18.813	1.00	4.42
										11.88
MOTA	5544	CB	PRO L			9.531	47.145	18.534		
ATOM	5545	CG	PRO L			8.471	47.514	17.576	1.00	16.86
ATOM	5546	CD	PRO L	84	3	8.420	46.406	16.540	1.00	16.66
ATOM	5547	N	GLU L	85	4	0.837	44.339	18.903	1.00	15.39
ATOM	5548	CA	GLU L	85	4	1.629	43.437	19.739	1.00	19.58
ATOM	5549	С	GLU I			2.921	42.962	19.050		17.14
	5550	0	GLU L			3.961	42.747	19.717		13.45
ATOM										
MOTA	5551	СВ	GLU L			0.768	42.241	20.263		23.14
ATOM	5552	CG	GLU I			9.774	41.549	19.298		30.24
MOTA	5553	CD	GLU I	85	3	9.317	40.143	19.802	1.00	41.62
ATOM	5554	OE1	GLU I	85	3	8.598	39.395	19.078	1.00	45.74
MOTA	5555	OE2	GLU I	85		9.683	39.769	20.943	1.00	47.56
ATOM	5556	N	ASP I			2.843.	42.860	17.715		11.63
	5557	CA	ASP I			3.939	42.419	16.857	1.00	7.95
ATOM										
ATOM	5558	С	ASP I			5.231	43.207	16.904	1.00	6.26
ATOM	5559	0	ASP I	86		6.293	42.626	16.799	1.00	2.00
MOTA	5560	CB	ASP I	86	4	3.458	42.347	15.430	1.00	8.64
ATOM	5561	CG	ASP I	, 86	4	2.428	41.291	15.245	1.00	10.66
ATOM	5562	OD1	ASP I	86	4	2.200	40.536	16.223	1.00	14.21
ATOM	5563		ASP I			1.857	41.231	14.132	1.00	12.79
								17.140	1.00	9.91
ATOM	5564	N	PHE I			5.157	44.507			
ATOM	5565	CA	PHE I			6.370	45.317	17.204		10.08
ATOM	5566	С	PHE I	87	. 4	7.240	44.830	18.351		12.05
ATOM	5567	0	PHE I	87	4	6.871	44.885	19.540	1.00	15.07
ATOM	5568	СВ	PHE I			6.022	46.749	17.456	1.00	15.64
ATOM	5569	CG	PHE I			5.404	47.401	16.307		19.02
		CD1						16.330		20.05
ATOM	5570					4.072	47.795			
MOTA	5571		PHE I			6.163	47.639	15.190		19.80
MOTA	5572		PHE I		4	3.510	48.428	15.234		24.33
ATOM	5573	CE2	PHE I	87 د	4	5.617	48.266	14.101	1.00	29.25
MOTA	5574	CZ	PHE I			4.278	48.669	14.112	1.00	28.91
ATOM	5575	N	ALA I			8.420	44.384	17.957		16.61
			ALA I					18.844		14.13
ATOM	5576	CA				9.421	43.816			
ATOM	5577	C	ALA I			0.689	43.674	18.019		12.29
ATOM	5578	0	ALA I	88	5	0.851	44.305	16.974	1.00	12.92

ATOM	5579	СВ	ALA	L	88	48.974	42.422	19.307	1.00 12.43
ATOM	5580	N	THR		89	51.571	42.815	18.489	1.00 9.92
ATOM	5581	CA	THR		89	52.795	42.545	17.792	1.00 3.83
ATOM	5582	С	THR	L	89	52.869	41.061	17.580	1.00 5.83
ATOM	5583	0	THR	L	89	52.665	40.270	18.501	1.00 5.11
ATOM	5584	СВ	THR		89	53.901	43.000	18.610	1.00 4.37
ATOM	5585	OG1	THR	L	89	54.259	44.310	18.162	1.00 12.36
ATOM	5586	CG2	THR	L	89	55.025	42.014	18.586	1.00 2.00
ATOM	5587	N	TYR	L	90	53.194	40.687	16.357	1.00 11.39
ATOM	5588	CA	TYR	L	90	53.239	39.281	15.974	1.00 13.44
ATOM	5589	С	TYR	L	90	54.614	38.705	15.657	1.00 10.32
ATOM	5590	0	TYR	L	90	55.413	39.352	14.967	1.00 10.50
MOTA	5591	CB	TYR	L	90	52.342	39.074	14.749	1.00 14.57
MOTA	5592	CG	TYR	${f L}$	90	50.892	39.415	14.995	1.00 15.90
ATOM	5593	CD1	TYR	L	90	50.513	40.705	15.391	1.00 15.40
MOTA	5594	CD2	TYR	L	90	49.895	38.452	14.841	1.00 13.10
MOTA	5595	CE1	TYR	L	90	49.177	41.017	15.624	1.00 13.40
MOTA	5596	CE2			90	48.574	38.755	15.070	1.00 11.93
MOTA	5597	CZ	TYR		90	48.218	40.032	15.459	1.00 11.99
MOTA	5598	ОН	TYR		90	46.903	40.314	15.691	1.00 11.31
MOTA	5599	N	TYR		91	54.850	37.483	16.136	1.00 5.22
MOTA	5600	CA	TYR		91	56.086	36.741	15.872	1.00 6.26 1.00 5.49
ATOM	5601	С	TYR		91	55.905	35.432	15.096	1.00 5.49 1.00 9.19
ATOM	5602	0	TYR		91	55.002	34.647	15.351 17.177	1.00 5.96
ATOM	5603	СВ	TYR		91	56.782	36.400	17.177	1.00 8.80
ATOM	5604	CG	TYR		91	57.086	37.623 38.364	17.749	1.00 9.30
MOTA	5605	CD1			91	58.244	37.982	19.039	1.00 5.92
ATOM	5606	CD2			91	56.290 58.596	39.412	18.558	1.00 2.00
ATOM	5607	CEl			91	56.640	39.023	19.854	1.00 8.19
ATOM	5608	CE2			91 91	57.799	39.727	19.606	1.00 7.52
ATOM	5609 5610	CZ OH	TYR TYR		91	58.174	40.751	20.433	1.00 18.75
ATOM ATOM	5611	N	CYS		92	56.775	35.180	14.139	1.00 8.42
ATOM	5612	CA	CYS		92	56.714	33.913	13.429	1.00 12.62
MOTA	5613	C	CYS		92	57.844	33.069	14.075	1.00 14.26
ATOM	5614	Õ	CYS		92	58.855	33.596	14.581	1.00 13.13
MOTA	5615	CB	CYS		92	56.985	34.115	11.972	1.00 9.99
ATOM	5616	SG	CYS		92	58.570	34.916	11.669	1.00 14.61
ATOM	5617	N	GLN		93	57.681	31.760	14.125	1.00 11.27
ATOM	5618	CA	GLN	L	93	58.729	30.981	14.751	1.00 9.32
ATOM	5619	С	GLN	L	93	58.654	29.587	14.253	1.00 10.29
MOTA	5620	0	GLN	L	93	57.571	29.023	14.180	1.00 14.45
MOTA	5621	CB	GLN	L	93	58.561	30.936	16.253	1.00 6.02
ATOM	5622	CG	GLN	L	93	59.179	29.672	16.843	1.00 4.54
MOTA	5623	CD	GLN		93	58.184	28.652	17.286	1.00 2.00
MOTA	5624	OE			93	58.534	27.715	17.975	1.00 2.00
ATOM	5625	NE2			93	56.932	28.843	16.930	1.00 7.69
ATOM	5626	N	HIS		94	59.814	29.033	13.936	1.00 6.92
ATOM	_5627	CA	HIS		94	59.913	27.676	13.428	1.00 8.30
ATOM	5628	С	HIS		94	60.064	26.638	14.525	1.00 5.49
MOTA	5629	0	HIS		94	59.974	26.923	15.713	1.00 2.00 1.00 13.14
MOTA	5630	СВ	HIS		94	61.101	27.537	12.442	
MOTA	5631	CG	HIS		94	62.451	27.481	13.106	1.00 16.57 1.00 15.29
MOTA	5632		HIS		94	63.553	26.949	12.493	1.00 13.29
MOTA	5633		HIS		94	62.853	27.853	14.345	1.00 23.23
ATOM	5634		l HIS		94	64.579	26.977	13.328 14.462	1.00 19.45
ATOM	5635		2 HIS		94	64.181	27.524	14.462	1.00 11.30
ATOM	5636	N		R L	95	60.370	25.433 24.282	14.074	1.00 7.85
ATOM	5637	CA		λ L	95	60.543	23.214	14.933	1.00 7.63
ATOM	5638	С	SE	R L	95	61.184	23.214	T4.03T	1.00 11.04

ATOM	5639	0	SER	L	95	60.873	22.007	14.094	1.00	8.86
ATOM	5640	СВ	SER		95	59.182	23.813	15.423	1.00	2.00
ATOM	5641	OG	SER		95	58.475	23.232	14.349	1.00	2.00
ATOM	5642	N	TRP		96	62.073	23.695	13.168	1.00	13.30
ATOM	5643	CA	TRP		96	62.763	22.824	12.234	1.00	14.43
	5644					63.880	22.024	12.918		12.11
ATOM		С		L	96		20.912			
ATOM	5645	0		P	96	64.209		12.487		11.27
ATOM	5646	СВ		L	96	63.324	23.665	11.063		17.34
ATOM	5647	CG		Г	96	63.910	22.865	9.990		15.09
ATOM	5648	CD1	TRP		96	65.219	22.628	9.788		19.40
ATOM	5649	CD2	TRP	L	96	63.209	22.156	8.982	1.00	20.36
ATOM	5650	NE1	TRP	L	96	65.395	21.805	8.705	1.00	21.35
ATOM	5651	CE2	TRP	\mathbf{L}	96	64.166	21.495	8.189	1.00	21.93
ATOM	5652	CE3	TRP	L	96	61.854	22.003	8.666	1.00	23.26
ATOM	5653	CZ2	TRP	L	96	63.820	20.691	7.094		22.05
MOTA	5654	CZ3		L	96	61.498	21.203	7.573		21.62
ATOM	5655	CH2		L	96	62.478	20.561	6.804		25.16
ATOM	5656	N	GLU		97	64.457	22.636	13.961	1.00	5.73
ATOM	5657	CA	GLU		97	65.534	22.022	14.698	1.00	2.00
ATOM	5658	C	GLU		97	65.758	22.772	15.996	1.00	4.84
ATOM	5659	0	GLU		97	65.096	23.769	16.287	1.00	
MOTA	5660	CB	GLU		97	66.790	22.194	13.832	1.00	7.01
MOTA	5661	CG	GLU		97	67.568	23.449	13.854		17.87
MOTA	5662	CD	GLU		97	68.581	23.539	12.717		27.76
MOTA	5663	OE1	GLU		97	68.551	22.625	11.857	1.00	31.73
ATOM	5664	OE2	GLU	L	97	69.392	24.504	12.686	1.00	33.06
ATOM	5665	N	ILE	\mathbf{r}	98	66.727	22.331	16.772	1.00	5.10
MOTA	5666	CA	ILE	L	98	67.009	23.042	17,989	1.00	4.93
ATOM	5667	С	ILE	L	98	68.106	24.086	17.645	1.00	9.06
ATOM	5668	0	ILE	L	98	69.055	23.789	16.931	1.00	16.29
ATOM	5669	CB	ILE		98	67.539	22.123	19.003	1.00	2.00
ATOM	5670	CG1	ILE		98	66.442	21.162	19.473	1.00	3.81
ATOM	5671	CG2	ILE		98	68.153	22.952	20.086	1.00	2.00
ATOM	5672	CD1	ILE		98	66.691	20.680	20.931		13.32
MOTA	5673	N	PRO		99	67.996	25.322	18.137	1.00	8.98
ATOM	5674	CA	PRO		99	66.960	25.880	19.002	1.00	
ATOM	5675	C	PRO		99	65.856	26.497	18.195	1.00	
ATOM	5676	Ö	PRO		99	66.116	27.108	17.168	1.00	17.30
ATOM	5677	СВ	PRO		99	67.687	26.977			
ATOM	5678							19.727	1.00	
	5679	CG	PRO		99	68.652	27.503	18.679	1.00	2.00
MOTA		CD	PRO		99	69.010	26.338	17.801	1.00	2.00
ATOM	5680	N	PRO		100	64.613	26.395	18.665	1.00	9.00
MOTA	5681	CA	PRO		100	63.594	27.029	17.843	1.00	4.20
ATOM	5682	С	PRO		100	63.941	28.493	17.969	1.00	2.56
ATOM	5683	0	PRO			64.555	28.904	18.960	1.00	2.00
MOTA	5684	CB	PRO		100	62.320	26.684	18.561	1.00	8.18
ATOM	5685	CG	PRO		100	62.787	26.581	20.054	1.00	10.08
MOTA	5686	CD	PRO			64.047	25.808	19.889	1.00	11.60
MOTA	5687	N	THR	\mathbf{r}	101	63.603	29.281	16.963	1.00	2.51
ATOM	5688	CA	THR	L	101	63.950	30.684	17.030	1.00	9.51
MOTA	5689	С	THR	L	101	62.848	31.573	16.496	.1.00	7.70
MOTA	5690	0	THR	L	101	62.179	31.218	15.544	1.00	8.01
ATOM	5691	CB	THR			65.264	30.936	16.245		14.12
MOTA	5692	OG1	THR			65.134	30.407	14.918		18.28
ATOM	5693	CG2	THR			66.444	30.237	16.922		10.87
ATOM	5694	N	PHE			62.686	32.746	17.097		11.90
ATOM	5695	CA	PHE			61.618	33.667	16.710		12.79
ATOM	5696	C	PHE			62.006	34.763	15.724		13.04
ATOM	5697	0	PHE			63.156	35.173			17.48
	5698	СВ						15.649		
MOTA	3030	می	PHE	т	Ŧ 02	61.047	34.337	17.978	1.00	10.48

ATOM	5699	CG	PHE L 1	.02	60.366	33.369	18.961	1.00	10.51
ATOM	5700	CD1	PHE L 1	102	61.094	32.686	19.926	1.00	6.82
ATOM	5701		PHE L 1		58.992	33.185	18.941	1.00	15.42
ATOM	5702		PHE L 1		60.473	31.846	20.852	1.00	10.80
	5702	CE2	PHE L 1		58.360	32.335	19.876	1.00	
ATOM			PHE L 1		59.107	31.668	20.832	1.00	
ATOM	5704	CZ					14.988	1.00	
MOTA	5705	N	GLY L 1		61.028	35.269			
ATOM	5706	CA	GLY L 1		61.321	36.354	14.077	1.00	3.00
MOTA	5707	С	GLY L 1		61.522	37.625	14.890	1.00	4.83
MOTA	5708	0	GLY L 1	103	61.387	37.662	16.113	1.00	8.71
ATOM	5709	N	GLY L 1	LO4	61.847	38.707	14.221	1.00	4.07
ATOM	5710	CA	GLY L 1	104	62.028	39.937	14.957	1.00	8.17
ATOM	5711	С	GLY L 1	104	60.720	40.500	15.489	1.00	10.20
ATOM	5712	0	GLY L 1	104	60.698	41.200	16.498	1.00	14.07
MOTA	5713	N	GLY L 1		59.624	40.194	14.813	1.00	6.08
ATOM	5714	CA		105	58.347	40.691	15.249	1.00	8.95
	5715	C		105	57.861	41.821	14.365		10.69
ATOM		0	GLY L 1		58.646	42.514	13.723	1.00	9.45
MOTA	5716					42.036	14.368	1.00	7.66
ATOM	5717	N	THR L 1		56.554				
ATOM	5718	CA		106	55.977	43.070	13.553	1.00	6.35
ATOM	5719	С		106	54.945	43.666	14.458	1.00	9.63
ATOM	5720	0	THR L]		54.228	42.933	15.126		16.62
MOTA	5721	CB		106	55.261	42.492	12.357	1.00	4.91
MOTA	5722	OGl	THR L]	106	56.192	42.268	11.311	1.00	7.49
ATOM	5723	CG2	THR L	106	54.277	43.458	11.852	1.00	4.21
MOTA	5724	N	LYS L 1	107	54.890	44.382	14.525	1.00	6.14
ATOM	5725	CA	LYS L 1	107	53.910	45.633	15.349	1.00	5.89
ATOM	5726	С	LYS L 1		52.774	45.905	14.398	1.00	11.28
ATOM	5727	0		107	53.002	46.402	13.289	1.00	10.07
ATOM	5728	CB	LYS L		54.440	46.964	15.873	1.00	5.60
ATOM	5729	CG		107	53.363	47.900	16.479	1.00	6.05
ATOM	5730	CD	LYS L		53.867	48.608	17.725	1.00	2.00
ATOM	5731	CE	LYS L		53.767	50.071	17.558	1.00	2.00
ATOM	5732	NZ	LYS L		53.683	50.672	18.903	1.00	8.83
	5733	N		108	51.553	45.585	14.829		14.84
ATOM					50.381	45.829	14.009	1.00	
ATOM	5734	CA		108				1.00	
ATOM	5735	С	LEU L		49.800	47.098	14.564		
ATOM	5736	0		108	48.893	47.037	15.376		18.43
ATOM	5737	CB		108	49.345	44.719	14.147	1.00	4.05
ATOM	5738	CG	LEU L		48.293	44.968	13.075	1.00	3.94
MOTA	5739	CD1		108	48.962	44.962	11.727	1.00	4.80
ATOM	5740			108	47.250	43.878	13.128	1.00	
MOTA	5741	N	GLU L		50.347	48.227	14.130	1.00	7.29
ATOM	5742	CA		109	49.951	49.572	14.554	1.00	6.07
MOTA	5743	С	GLU L	109	48.634	50.049	13.942	1.00	5.18
MOTA	5744	0	GLU L	109	48.185	49.559	12.937	1.00	7.79
ATOM	5745	CB	GLU L	109	51.068	50.532	14.155	1.00	10.73
MOTA	5746	CG	GLU L	109	51.271	51.764	14.969	1.00	4.87
ATOM	5747	CD	GLU L	109	51.484	52.969	14.087	1.00	7.92
ATOM	5748	OE1			50.977	52.993	12.947	1.00	6.20
ATOM	5749			109	52.160	53.904	14.545	1.00	12.06
ATOM	5750	N	ILE L		48.030	51.049	14.545	1.00	6.49
ATOM	5751	CA	ILE L		46.766	51.562	14.072	1.00	7.37
ATOM	5752	C	ILE L		46.977	52.682	13.088	1.00	6.77
ATOM	5753	Ö	ILE L		47.533	53.700	13.486	1.00	8.08
ATOM	5754	СВ	ILE L		45.992	52.144	15.269	1.00	14.43
ATOM		CG1			45.777	51.063	16.337		14.70
	5755				44.625		14.825		16.43
ATOM	5756		ILE L			52.731			14.46
ATOM	5757	CD1			44.883	51.577	17.461	1.00	
ATOM	5758	N	LYS L	TTT	46.510	52.535	11.842	1.00	5.65

ATOM	5759	CA	LYS L 111	46	6.660	53.622	10.854	1.00	8.26
MOTA	5760	C	LYS L 111		.896	54.821	11.418	1.00	6.91
	5761		LYS L 111		1.941	54.679	12.173		10.63
ATOM		0							11.70
ATOM	5762	CB	LYS L 111		5.073	53.236	9.458		
MOTA	5763	CG	LYS L 111	46	5.891	53.658	8.166		17.59
ATOM	5764	CD	LYS L 111	46	5.310	53.085	6.752	1.00	20.28
ATOM	5765	CE	LYS L 111	46	5.815	51.605	6.292	1.00	27.11
ATOM	5766	NZ	LYS L 111		5.798	51.090	4.783	1.00	5.94
			ARG L 112		5.339	56.010	11.076	1.00	9.87
ATOM	5767	N					11.502		12.88
ATOM	5768	CA	ARG L 112		5.681	57.236			
ATOM	5769	С	ARG L 112		5.441	58.372	10.819		16.59
ATOM	5770	0	ARG L 112	4	7.674	58.320	10.708	1.00	18.31
ATOM	5771	CB	ARG L 112	45	5.714	57.357	13.014	1.00	7.61
ATOM	5772	CG	ARG L 112	4	7.074	57.497	13.570	1.00	9.30
ATOM	5773	CD	ARG L 112		7.393	58.941	13.723		10.72
					5.617	59.563	14.774	1.00	9.06
ATOM	5774	NE	ARG L 112						
ATOM	5775	CZ	ARG L 112		5.975	60.706	14.601		15.48
ATOM	5776		ARG L 112		5.027	61.322	13.426		16.97
ATOM	5 77 7	NH2	ARG L 112	4.5	5.320	61.259	15.607	1.00	19.96
ATOM	5778	N	THR L 113	4	5.726	59.394	10.348	1.00	16.47
MOTA	5779	CA	THR L 113	4	5.410	60.471	9.633	1.00	12.87
ATOM	5780	C	THR L 113		7.552	61.049	10.425	1.00	8.78
			THR L 113		7.577	61.017	11.657	1.00	3.08
MOTA	5781	0							
MOTA	5782	CB	THR L 113		5.488	61.638	9.241		14.14
ATOM	5783	OG1	THR L 113		4.934	62.222	10.427		17.83
MOTA	5784	CG2	THR L 113	4	4.381	61.151	8.267		15.38
ATOM	5785	N	VAL L 114	4	8.533	61.531	9.677	1.00	10.06
ATOM	5786	CA	VAL L 114	4	9.707	62.128	10.262	1.00	7.68
ATOM	5787	С	VAL L 114	4	9.308	63.191	11.230	1.00	8.62
ATOM	5788	Ö	VAL L 114		8.181	63.665	11.194		16.36
	5789	СВ	VAL L 114		0.552	62.718	9.194	1.00	7.70
ATOM									
ATOM	5790	CG1			1.560	63.700	9.789	1.00	6.65
ATOM	5791		VAL L 114		1.201	61.574	8.431	1.00	5.83
ATOM	5792	N	ALA L 115		0.227	63.578	12.093	1.00	3.49
MOTA	5793	CA	ALA L 115		9.922	64.571	13.092	1.00	4.67
MOTA	5794	С	ALA L 115		1.252	65.111	13.590	1.00	5.31
MOTA	5795	0	ALA L 115	5	2.064	64.376	14.166	1.00	7.60
ATOM	5796	CB	ALA L 115	4	9.101	63.914	14.247	1.00	2.18
ATOM	5797	N	ALA L 116	5	1.472	66.403	13.392	1.00	8.38
ATOM	5798	CA	ALA L 116	5	2.741	66.995	13.808	1.00	9.43
ATOM	5799	С	ALA L 116		2.792	67.011	15.310	1.00	8.27
ATOM	5800	Ö	ALA L 116		1.780	67.124	15.965		12.12
ATOM	5801	СВ	ALA L 116		2.885	68.386	13.250		11.63
			PRO L 117				15.888	1.00	9.36
ATOM	5802	N			3.970	66.863			
MOTA	5803	CA	PRO L 117		3.981	66.875	17.341		15.41
MOTA	5804	С	PRO L 117		4.079	68.313	17.847		19.27
ATOM	5805	0	PRO L 117	5	4.511	69.203	17.095	1.00	19.88
MOTA	5806	CB	PRO L 117	5	5.220	66.070	17.654	1.00	11.66
MOTA	5807	CG	PRO L 117		6.150	66.566	16.625	1.00	10.00
ATOM	58.08	CD	PRO L 117		5.322	66.662	15.363	1.00	
ATOM	5809	N	SER L 118		3.618	68.539	19.086		21.97
MCTA	5810	CA	SER L 118		3.709	69.860	19.741		25.57
MOTA	5811	С	SER L 118		4.793	69.671	20.823		24.10
ATOM	5812	0	SER L 118		4.619	68.933	21.787		21.98
MOTA	5813	CB	SER L 118		2.360	70.288	20.364		24.62
MOTA	5814	OG	SER L 118	5	1.766	69.208	21.057	1.00	37.03
MOTA	5815	N	VAL L 119	5	5.947	70.282	20.600	1.00	23.36
ATOM	5816	CA	VAL L 119		7.047	70.123	21.528		23.11
ATOM	5817	C	VAL L 119		7.039	71.162	22.612		22.97
ATOM	5818	ŏ	VAL L 119		6.581	72.259	22.387		25.62
WI OLI	2010	9	AVR D TTS		0.001		22.301		

					00 775	1 00 21 14
ATOM	5819	CB VAL L 119		70.174	20.775	1.00 21.14
ATOM	5820	CG1 VAL L 119		69.671		1.00 16.93
ATOM	5821	CG2 VAL L 119	58.938	71.596	20.734	1.00 22.67
ATOM	5822	N PHE L 120	57.566	70.810	23.779	1.00 24.08
ATOM	5823	CA PHE L 120	57.644	71.723	24.920	1.00 28.09
ATOM	5824	C PHE L 120	58.911	71.385	25.675	1.00 30.03
ATOM	5825	O PHE L 120	59.175	70.207	25.957	1.00 30.53
	5826	CB PHE L 120	56.493	71.551	25.914	1.00 28.63
MOTA MOTA	5827	CG PHE L 120	55.154	71.385	25.286	1.00 28.41
ATOM	5828	CD1 PHE L 120	54.236	72.425	25.317	1.00 30.73
		CD2 PHE L 120	54.801	70.190	24.680	1.00 27.02
MOTA	5829 5830	CE1 PHE L 120	52.984	72.277	24.749	1.00 33.87
MOTA	5831	CE2 PHE L 120	53.558	70.027	24.111	1.00 31.13
MOTA	5832	CZ PHE L 120	52.644	71.065	24.140	1.00 32.39
ATOM			59.665	72.422	26.039	1.00 28.73
ATOM	5833		60.927	72.237	26.733	1.00 22.93
ATOM	5834		60.887	72.735	28.144	1.00 24.03
MOTA	5835		60.559	73.888	28.395	1.00 23.44
ATOM	5836		62.096	72.940	25.950	1.00 20.73
MOTA	5837		63.433	72.764	26.673	1.00 17.56
ATOM	5838	CG1 ILE L 121	61.777	74.405	25.722	1.00 9.45
MOTA	5839	CG2 ILE L 121	64.615	72.803	25.727	1.00 9.39
MOTA	5840	CD1 ILE L 121	61.244	71.841	29.058	1.00 25.55
MOTA	5841	N PHE L 122	61.285	72.148	30.483	1.00 29.20
MOTA	5842	CA PHE L 122	62.735	72.227	30.970	1.00 32.74
MOTA	5843	C PHE L 122	63.490	71.274	30.830	1.00 37.21
MOTA	5844	O PHE L 122	60.572	71.057	31.280	1.00 28.99
MOTA	5845	CB PHE L 122		70.849	30.898	1.00 32.63
MOTA	5846	CG PHE L 122	59.131 58.103	70.043	31.716	1.00 35.32
MOTA	5847	CD1 PHE L 122	58.795	70.168	29.725	1.00 34.02
MOTA	5848	CD2 PHE L 122	56.767	71.126	31.374	1.00 34.28
MOTA	5849	CE1 PHE L 122	57.465	69.961	29.371	1.00 32.59
MOTA	5850	CE2 PHE L 122	56.449	70.439	30.196	1.00 34.59
ATOM	5851	CZ PHE L 122	63.132	73.355	31.572	1.00 33.74
MOTA	5852	N PRO L 123	64.490	73.552	32.078	1.00 36.22
MOTA	5853	CA PRO L 123	64.551	73.332	33.532	1.00 39.68
MOTA	5854	C PRO L 123	63.539	73.143	34.219	1.00 41.15
MOTA	5855	O PRO L 123	64.694	75.044	31.950	1.00 35.14
ATOM	5856	CB PRO L 123	63.294	75.632	31.667	1.00 37.48
MOTA	5857	CG PRO L 123	62.306	74.538	31.826	1.00 34.62
MOTA	5858	CD PRO L 123	65.743	72.713	34.024	1.00 40.61
MOTA	5859	N PRO L 124	66.044	72.234	35.375	1.00 40.93
MOTA	5860	CA PRO L 124 C PRO L 124	65.253	72.775	36.555	1.00 46.32
MOTA	5861		65.290	73.964	36.873	1.00 49.00
ATOM	5862	O PRO L 124	67.520	72.519	35.513	1.00 38.12
MOTA	5863		68.015	72.273	34.181	1.00 41.44
MOTA	5864	CG PRO L 124	66.970	72.768	33.217	1.00 40.13
MOTA	5865		64.542	71.880	37.221	1.00 50.08
MOTA	5866	N SER L 125	63.770	72.271	38.378	1.00 54.07
MOTA	5867		64.803	72.864		1.00 54.72
ATOM	5868		65.794	72.206		
ATOM	5869	O SER L 125		71.033		
ATOM	5870		63.148			
MOTA	5871		63.611 64.597			
MOTA	5872					
MOTA	5873		65.531			
MOTA	5874		65.815			
ATOM	5875		66.972			
MOTA	5876		64.924			
MOTA	5877		65.229			
MOTA	5878	OD1 ASP L 126	66.226	77.254	39.550	

				300	64.465	78.279	40.339	1.00 72.94
MOTA	5879		ASP L					1.00 59.38
MOTA	5880	N	GLU L	127	64.747	73.178	42.284	
MOTA	5881	CA	GLU L	127	64.874	72.230	43.379	1.00 57.94
MOTA	5882	С	GLU L	127	65.813	71.073	43.027	1.00 57.73
ATOM	5883	0		127	66.516	70.564	43.899	1.00 56.47
		СВ	GLU L		63.500	71.685	43.763	1.00 60.46
MOTA	5884				63.558	70.514	44.735	1.00 64.00
MOTA	5885	CG		127				1.00 67.69
ATOM	5886	CD	GLU L	127	62.186	69.963	45.088	
ATOM	5887	OE1	GLU L	127	62.143	68.878	45.709	1.00 68.32
ATOM	5888	OE2	GLU L	127	61.159	70.605	44.751	1.00 68.18
ATOM	5889	N	GLN L		65.811	70.659	41.754	1.00 57.03
		CA	GLN L		66.659	69.559	41.281	1.00 54.83
ATOM	5890				68.130	69.982	41.154	1.00 54.83
ATOM	5891	С	GLN L					1.00 51.78
MOTA	5892	0	GLN L		69.048	69.155	41.271	
ATOM	5893	CB	GLN L	128	66.132	69.045	39.926	1.00 53.12
MOTA	5894	CG	GLN L	128	66.691	67.689	39.480	1.00 54.29
ATOM	5895	CD	GLN L		67.018	67.667	37.981	1.00 56.38°
ATOM	5896	OE1			66.309	68.286	37.162	1.00 52.80
					68.103	66.966	37.617	1.00 54.10
MOTA	5897	NE2		128				1.00 55.26
MOTA	5898	И	LEU L		68.346	71.275	40.928	
ATOM	5899	CA	LEU L		69.696	71.793	40.773	1.00 56.61
ATOM	5900	С	LEU L	129	70.348	71.818	42.135	1.00 60.37
MOTA	5901	0	LEU L	129	71.580	71.746	42.252	1.00 62.18
ATOM	5902	ĊВ	LEU L		69.669	73.195	40.157	1.00 51.86
		CG	LEU L		69.429	73.145	38.640	1.00 51.66
ATOM	5903				68.688	74.381	38.175	1.00 46.91
MOTA	5904		LEU L					1.00 50.23
MOTA	5905	CD2			70.768	73.002	37.908	
MOTA	5906	N	LYS L		69.510	71.892	43.166	1.00 61.47
MOTA	5907	CA	LYS L	130	69.986	71.905	44.541	1.00 62.69
ATOM	5908	С	LYS L	130	70.495	70.492	44.872	
ATOM	5909	0	LYS L	130	70.709	70.125	46.032	1.00 66.21
ATOM	5910	СВ		130	68.835	72.302	45.466	1.00 61.22
			LYS L		69.169	73.397	46.466	1.00 64.06
ATOM	5911	CG			69.705	74.655	45.777	1.00 69.78
MOTA	5912	CD		130				1.00 74.25
ATOM	5913	CE		130	68.997	75.954	46.250	
ATOM	5914	NZ	LYS I	130	69.920	77.130	46.479	1.00 75.22
MOTA	5915	N	SER I	. 131	70.702	69.697	43.833	1.00 65.34
ATOM	5916	CA	SER I	131	71.158	68.338	44.020	1.00 64.46
ATOM	5917	С	SER I		72.313	68.009	43.100	1.00 62.54
ATOM	5918	ō	SER I		72.631	66.838	42.892	1.00 61.64
	5919	СВ	SER I		69.996	67.392	43.757	1.00 68.84
MOTA			SER I		68.767	68.111	43.726	1.00 72.13
MOTA	5920	OG					42.535	1.00 61.09
MOTA	5921	N	GLY I		72.919	69.047		
MOTA	5922	CA	GLY I		74.052	68.849	41.654	1.00 61.82
ATOM	5923	С	GLY I		73.724	68.286	40.287	1.00 61.20
ATOM	5924	0	GLY I	132	74.597	68.228	39.421	1.00 61.93
ATOM	5925	N	THR I		72.480	67.866	40.075	1.00 59.92
ATOM	5926	CA	THR I		72.105	67.328	38.773	1.00 57.16
		C	THR I		71.133	68.257	38.067	1.00 55.63
MOTA	5927					68.788	38.668	1.00 51.38
MOTA	5928	. 0	THR I		70.201		38.885	1.00 56.51
MOTA	5929	СВ	THR 1		71.471	65.944		
MOTA	5930	OG:	I THR I	և 133	71.620	65.457	40.224	1.00 57.67
MOTA	5931	CG	2 THR 1	L 133	72.144	64.987	37.914	1.00 55.54
ATOM	5932	N	ALA I		71.390	68.479	36.785	1.00 55.78
ATOM	5933	CA		L 134	70.539	69.343	35.964	1.00 54.68
		C		L 134	70.111	68.533	34.734	1.00 54.44
ATOM	5934					68.196	33.872	1.00 60.81
MOTA	5935	0		L 134	70.934		35.532	1.00 48.30
MOTA	5936	CB		L 134	71.314	70.596		
MOTA	5937	N		և 135	68.837	68.190	34.654	1.00 46.59
ATOM	5938	CA	SER :	և 135	68.391	67.421	33.518	1.00 42.04

ATOM	5939	С	SER L 135		67.297	68.204	32.842	1.00	38.91
ATOM	5940		SER L 135		66.362	68.619	33.497	1.00	41.71
ATOM	5941		SER L 135		67.868	66.088	34.010	1.00	44.92
ATOM	5942		SER L 135		66.975	66.287	35.093	1.00	47.03
ATOM	5943		VAL L 136		67.415	68.439	31.544	1.00	33.88
ATOM	5944		VAL L 136		66.387	69.193	30.841	1.00	31.41
ATOM	5945		VAL L 136		65.523	68.277	29.993	1.00	31.68
ATOM	5946		VAL L 136		66.014	67.553	29.132	1.00	35.28
ATOM	5947		VAL L 136		66.990	70.274	29.912	1.00	33.36
ATOM	5948		VAL L 136		68.238	69.748	29.223		37.64
ATOM	5949	CG2	VAL L 136		65.980	70.661	28.837	1.00	32.94
ATOM	5950	N	VAL L 137		64.219	68.337	30.221	1.00	29.31
ATOM	5951	CA	VAL L 137		63.292	67.504	29.482		24.37
MOTA	5952	С	VAL L 137		62.600	68.243	28.351		25.21
MOTA	5953	0	VAL L 137		62.099	69.358	28.527		22.56
MOTA	5954	CB	VAL L 137		62.209	66.955	30.368		19.46
ATOM	5955	CG1	VAL L 137		61.128	66.361	29.512		23.46
MOTA	5956	CG2	VAL L 137		62.752	65.923	31.254		19.93
ATOM	5957	N	CYS L 138		62.589	67.599	27.191		26.24
MOTA	5958	CA	CYS L 138		61.969	68.120	25.994		26.51
ATOM	5959	С	CYS L 138		60.801	67.157	25.748		26.48
ATOM	5960	0	CYS L 138		60.926	65.959	25.985		30.21
MOTA	5961	CB	CYS L 138		63.034	68.119	24.901		22.22
MOTA	5962	SG	CA2 P 138		62.434	68.043	23.212		35.62
MOTA	5963	N	LEU L 139		59.653	67.660	25.308		26.30
ATOM	5964	CA	LEU L 139		58.511	66.771	25.120		24.63
MOTA	5965	С	LEU L 139		57.719	66.958	23.850		24.16
MOTA	5966	0	LEU L 139		57.238	68.049	23.570		
ATOM	5967	CB	LEU L 139		57.551	66.894	26.308		26.32 22.13
ATOM	5968	CG	LEU L 139	•	56.039 55.713	66.666 65.197	26.083 26.160	_	18.87
ATOM	5969	CD1	LEU L 139		55.235	67.389	27.127		19.36
ATOM	5970	CD2	LEU L 139 LEU L 140		57.573	65.881	23.091		25.86
ATOM	5971 5972	N CA	LEU L 140		56.814	65.937	21.852		31.39
ATOM ATOM	5973	C	LEU L 140		55.438	65.374	22.119		31.60
MOTA	5974	Ö	LEU L 140		55.312	64.148	22.260		32.98
ATOM	5975	CB	LEU L 140		57.524	65.121	20.755		32.52
ATOM	5976	CG	LEU L 140		58.766	65.820	20.156		36.63
ATOM	5977	CD1	LEU L 140		59.880	65.836	21.207		37.43
ATOM	5978	CD2	LEU L 140		59.254	65.121	18.882	1.00	36.01
ATOM	5979	N	ASN L 141		54.410	66.231	22.211	1.00	27.73
ATOM	5980	CA	ASN L 141		53.100	65.662	22.465	1.00	30.03
ATOM	5981	С	ASN L 141		52.233	65.237	21.269		28.76
ATOM	5982	0	ASN L 141		52.232	65.828	20.188		27.23
ATOM	5983	CB	ASN L 141		52.244	66.515	23.448		27.83
MOTA	5984	CG	ASN L 141		51.127	65.665	24.138		32.37
MOTA	5985	OD1	ASN L 141		50.099	66.183	24.559	_	37.81
MOTA	5986	ND2	ASN L 141		51.344	64.351	24.223		32.34
MOTA	5987	N	ASN L 142	-	51.499	64.163	21.523		27.44
MOTA	5988	CA	ASN L 142		50.560	63.598	20.607		26.52
ATOM	5989	С	ASN L 142		50.896	63.783	19.145		24.75
MOTA	5990	0	ASN L 142		50.315	64.625	18.477		27.64
MOTA	5991	CB	ASN L 142		49.192	64.175	20.984		31.51
MOTA	5992	CG	ASN L 142		48.715	63.680	22.389		41.86
MOTA	5993		ASN L 142		48.694	64.431	23.395		36.99
MOTA	5994	ND2			48.357	62.390	22.453		46.94
MOTA	5995	N	PHE L 143		51.859	62.991	18.671		24.39
MOTA	5996	CA	PHE L 143		52.306	62.986	17.263		20.59
ATOM	5997	С	PHE L 143		52.117	61.593	16.645		16.19
MOTA	5998	0	PHE L 143		51.806	60.609	17.334	1.00	14.75

		C.D.	DUE T. 143	53.800	63.353	17.134	1.00 14.86
ATOM	5999	CB	PHE L 143 PHE L 143	54.741		17.902	1.00 12.64
MOTA	6000	CG	PHE L 143	55.110		19.227	1.00 10.38
MOTA	6001	CDI	PHE L 143	55.279	61.289	17.297	1.00 11.68
MOTA	6002	CDZ	PHE L 143	55.987	61.884	19.928	1.00 3.34
MOTA	6003	CET	PHE L 143	56.155		17.995	1.00 8.27
MOTA	6004	CEZ	PHE L 143	56.505	60.777	19.318	1.00 5.82
MOTA	6005	CZ	TYR L 144	52.337	61.510	15.344	1.00 7.42
MOTA	6006		TYR L 144	52.228	60.235	14.656	1.00 10.65
ATOM	6007	CA C	TYR L 144	52.541	60.555	13.235	1.00 10.04
MOTA	6008 6009	0	TYR L 144	52.213	61.638	12.788	1.00 14.97
MOTA		СВ	TYR L 144	50.809	59.677	14.697	1.00 8.36
MOTA	6010	CG	TYR L 144	50.641	58.454	13.800	1.00 8.26
MOTA	6011 6012		TYR L 144	50.417	57.194	14.366	1.00 3.29
MOTA	6012	CD2	TYR L 144	50.698	58.556	12.386	1.00 2.00
ATOM	6013	CE1		50.254	56.069	13.572	1.00 2.00
ATOM	6015	CE2	TYR L 144	50.535	57.434	11.582	1.00 2.00
ATOM	6016	CZ	TYR L 144	50.316	56.195	12.188	1.00 2.00
MOTA MOTA	6017	OH	TYR L 144	50.186	55.066	11.419	1.00 4.80
ATOM	6018	N	PRO L 145	53.244	59.645	12.507	1.00 8.27
ATOM	6019	CA	PRO L 145	53.728	58.319	12.907	1.00 3.97
ATOM	6020	C	PRO L 145	54.698	58.428	14.042	1.00 5.48
ATOM	6021	0	PRO L 145	55.051	59.526	14.483	1.00 3.31
ATOM	6022	СВ	PRO L 145	54.457	57.806	11.675	1.00 3.28
ATOM	6023	CG	PRO L 145	54.026	58.682	10.540	1.00 9.45
MOTA	6024	CD	PRO L 145	53.559	59.968	11.110	1.00 11.45
MOTA	6025	N	ARG L 146	55.168	57.265	14.477	1.00 10.67
ATOM	6026	CA	ARG L 146	56.116	57.184	15.583	1.00 15.83
ATOM	6027	С	ARG L 146	57.556	57.632	15.277	1.00 18.65
MOTA	6028	0	ARG L 146	58.339	57.909	16.197	1.00 22.55
ATOM	6029	CB	ARG L 146	56.158	55.767	16.139	1.00 12.01
ATOM	6030	CG	ARG L 146	56.851	55.715	17.468	1.00 16.18
ATOM	6031	CD	ARG L 146	57.720	54.503	17.531	1.00 27.51 1.00 33.50
MOTA	6032	NE	ARG L 146	58.110	54.132	18.892	1.00 33.30
ATOM	6033	CZ	ARG L 146	58.682	54.967	19.758	1.00 34.21
MOTA	6034	NH1	ARG L 146	58.928	56.224	19.405	1.00 29.88
MOTA	6035	NH2	2 ARG L 146	59.025	54.537	20.968	1.00 32.73
MOTA	6036	N	GLU L 147	57.905	57.702	13.994	1.00 10.44
ATOM	6037	CA	GLU L 147	59.238	58.112	13.591 13.938	1.00 13.18
MOTA	6038	С	GLU L 147	59.448	59.588	13.395	1.00 17.19
ATOM	6039	0	GLU L 147	58.774	60.470	12.105	1.00 17.13
MOTA	6040		GLU L 147	59.375	57.871 56.407	11.765	1.00 28.99
ATOM	6041	CG	GLU L 147	59.420 58.044	55.827	11.450	1.00 37.11
MOTA	6042	CD	GLU L 147	57.692		12.005	1.00 41.01
MOTA	6043	OE.	1 GLU L 147	57.304		10.637	1.00 43.87
MOTA	6044		2 GLU L 147	60.395		14.822	1.00 11.11
MOTA	6045		ALA L 148	60.621		15.227	1.00 13.37
MOTA	6046			62.037			
MOTA	6047		ALA L 148	62.430			
MOTA	6048		ALA L 148	59.619			
MOTA	6049			62.812			
MOTA	6050		LYS L 149	64.161			
ATOM	6051			64.126			
ATOM	6052		LYS L 149	63.382	_		
ATOM	6053		LYS L 149	65.028		14.145	
MOTA	6054			66.32			
MOTA	6055			67.514	_		1.00 42.98
ATOM	6056			68.16	_		1.00 45.27
MOTA	6057			67.512			
MOTA	6058	3 NZ	, PIO P 143	07.512	_ 01.0/4		

ATOM 6059 N VAL L 150 64.963 63.719 17.300 ATOM 6060 CA VAL L 150 65.041 64.734 18.349 ATOM 6061 C VAL L 150 66.492 65.009 18.798 ATOM 6062 O VAL L 150 66.966 64.433 19.803 ATOM 6063 CB VAL L 150 64.214 64.280 19.598 ATOM 6064 CG1 VAL L 150 63.568 65.493 20.310 ATOM 6065 CG2 VAL L 150 63.164 63.275 19.170 ATOM 6066 N GLN L 151 67.185 65.888 18.069 ATOM 6067 CA GLN L 151 68.584 66.228 18.360 ATOM 6068 C GLN L 151 68.654 67.293 19.422 ATOM 6069 O GLN L 151 67.801 68.173 19.442	1.00 34.29 1.00 37.90 1.00 40.07 1.00 35.07 1.00 34.07 1.00 34.82 1.00 37.00 1.00 36.53 1.00 35.53 1.00 32.29
ATOM 6060 CA VAL L 150 66.492 65.009 18.798 66.497 66.492 65.009 18.798 66.496 64.433 19.803 66.966 64.433 19.803 66.966 64.214 64.280 19.595 64.214 64.280 19.595 64.214 64.280 19.595 64.214 64.280 19.595 64.214 64.280 19.595 64.214 64.280 19.595 64.214 64.280 19.595 64.214 64.280 19.595 64.214 64.280 19.595 64.214 64.280 19.595 64.214 64.280 19.595 65.888 18.065 65.493 20.310 6065 CG2 VAL L 150 63.164 63.275 19.170 6066 N GLN L 151 68.584 66.228 18.365 65.493 67.293	3 1.00 37.90 3 1.00 40.07 5 1.00 35.07 1.00 34.07 1.00 34.82 5 1.00 37.00 8 1.00 36.53 7 1.00 35.53 3 1.00 32.29
ATOM 6061 C VAL L 150 66.966 64.433 19.803 ATOM 6062 O VAL L 150 64.214 64.280 19.595 ATOM 6063 CB VAL L 150 63.568 65.493 20.310 ATOM 6064 CG1 VAL L 150 63.164 63.275 19.170 ATOM 6065 CG2 VAL L 150 67.185 65.888 18.063 ATOM 6066 N GLN L 151 68.584 66.228 18.360 ATOM 6067 CA GLN L 151 68.584 66.228 18.360 ATOM 6068 C GLN L 151 68.654 67.293 19.424 ATOM 6069 O GLN L 151 67.801 68.173 19.444	1.00 35.07 1.00 34.07 1.00 34.82 5 1.00 37.00 8 1.00 36.53 7 1.00 35.53 3 1.00 32.29
ATOM 6062 O VAL L 150 64.214 64.280 19.595 ATOM 6063 CB VAL L 150 63.568 65.493 20.310 ATOM 6064 CG1 VAL L 150 63.164 63.275 19.170 ATOM 6066 N GLN L 151 67.185 65.888 18.063 ATOM 6067 CA GLN L 151 68.584 66.228 18.360 ATOM 6068 C GLN L 151 68.654 67.293 19.422 ATOM 6069 O GLN L 151 67.801 68.173 19.444 ATOM 6069 O GLN L 151 67.801 68.173 19.444	1.00 34.07 1.00 34.82 5 1.00 37.00 8 1.00 36.53 7 1.00 35.53 3 1.00 32.29
ATOM 6063 CB VAL L 150 ATOM 6064 CG1 VAL L 150 ATOM 6065 CG2 VAL L 150 ATOM 6066 N GLN L 151 ATOM 6067 CA GLN L 151 ATOM 6068 C GLN L 151 ATOM 6069 O GLN L 151	0 1.00 34.82 5 1.00 37.00 8 1.00 36.53 7 1.00 35.53 3 1.00 32.29
ATOM 6064 CG1 VAL L 150 63.164 63.275 19.170 ATOM 6065 CG2 VAL L 150 67.185 65.888 18.069 ATOM 6067 CA GLN L 151 68.584 66.228 18.360 ATOM 6068 C GLN L 151 68.654 67.293 19.420 ATOM 6069 O GLN L 151 67.801 68.173 19.440 ATOM 6069 O GLN L 151 67.801 68.173 19.440 ATOM 6069 O GLN L 151 67.801 68.173 19.440	5 1.00 37.00 8 1.00 36.53 7 1.00 35.53 3 1.00 32.29
ATOM 6065 CG2 VAL 151 67.185 65.888 18.065 ATOM 6066 N GLN L 151 68.584 66.228 18.366 ATOM 6068 C GLN L 151 68.654 67.293 19.42 ATOM 6069 O GLN L 151 67.801 68.173 19.44	8 1.00 36.53 7 1.00 35.53 3 1.00 32.29
ATOM 6066 N GLN L 151 68.584 66.228 18.360 ATOM 6068 C GLN L 151 68.654 67.293 19.42 ATOM 6069 O GLN L 151 67.801 68.173 19.44	7 1.00 35.53 3 1.00 32.29
ATOM 6068 C GLN L 151 68.654 67.293 19.42 ATOM 6069 O GLN L 151 67.801 68.173 19.44	3 1.00 32.29
ATOM 6069 O GLN L 151 67.801 68.173 19.44	
69.302 66.761 17.12	
COZI CC CIN I. 151 70.509 65.934 16.64	
70.663 65.99/ 15.14	
NTOM 6073 OE1 GLN L 151 71.070 65.024 14.50	
ATOM 6074 NE2 GLN L 151 70.305 67.142 14.55	
ATOM 6075 N TRP L 152 69.676 67.223 20.23	
NTOM 6076 CA TRP L 152 69.872 68.234 21.34	
NTOM 6077 C TRP L 152 71.063 69.148 21.01	
ATOM 6078 O TRP L 152 72.078 68.710 20.45	
ATOM 6079 CB TRP L 152 70.141 67.583 22.65	
ATOM 6080 CG TRP L 152 68.922 67.197 23.45	
ATOM 6081 CD1 TRP L 152 68.403 65.942 23.37	
ATOM 6082 CD2 TRP L 152 68.181 68.019 24.34	
ATOM 6083 NEI TRP L 152 67.389 65.924 24.43	
ATOM 6084 CE2 TRP L 152 67.230 67.166 24.33	
ATOM 6085 CE3 TRP L 152 68.221 69.373 24.0	
ATOM 6006 CZZ INI I 101	
ATOM 0007 C23 171 2 202	
ATOM 6088 CH2 1RF 1 132 70 045 70 417 21.3	
ATOM 6089 N LIS L 133 70 200 71 382 21 1	
ATOM 6090 CA LIS L 133	98 1.00 43.28
ATOM 6091 C 113 71 417 73.192 22.6	22 1.00 42.39
ATOM 6092 0 LYS L 153 71.417 72.146 19.8	41 1.00 35.75
ATOM 6093 CB E13 E 153 71.709 71.239 18.6	09 1.00 39.12
ATOM 6054 CG 115 71 847 72.018 17.3	09 1.00 45.05
ATOM 6095 CD 113 153 70 690 71.744 16.3	45 1.00 45.35
ATOM 6036 CE 513 2 69 604 72 793 16.4	15 1.00 44.77
73.440 72.244 22.9	
ATOM 6099 CA VAL I 154 73.808 73.105 24.0	
74.811 74.137 23.5	
75.888 73.797 23.0	
ATOM 6102 CB VAL L 154 74.447 72.320 25.1	
ATOM 6103 CG1 VAL L 154 74.790 73.259 26.4	
ATOM 6104 CG2 VAL L 154 73.507 71.195 25.	
ATOM 6105 N ASP L 155 74.435 75.402 23.	
ATOM 6106 CA ASP L 155 75.265 76.540 23.	
ATOM 6107 C ASP L 155 /5./91 /6.293 21.	
ATOM 6108 O ASP L 155 76.980 76.406 21.	
ATOM 6109 CB ASP L 155 /6.423 /6.736 24.	(0 10
ATOM 6110 CG ASP 1 133	
ATOM 6111 ODI ASF II 193	394 1.00 65.40
ATOM 6112 OD2 ASP 1 135 74 977 75 923 21.	020 1.00 57.74
ATOM 6113 N ASN L 136 75 105 75 658 19.	627 1.00 60.57
ATOM 6114 CA ASN 6 150 75 967 74 366 19.	513 1.00 58.85
ATOM 6115 C ASN 1 150 76 171 73 854 18.	417 1.00 62.93
ATOM 6116 0 ASN 1 136 76 022 76 803 19.	021 1.00 67.82
ATOM 6117 CB ASN B 130	343 1.00 77.18
ATOM 6118 CG ASN L 156 75.449 76.103 15.	

ATOM	6119	OD1	ASN	L	156	74.224	7	8.351	19.455	1.00	80.76
ATOM	6120		ASN			76.336	7	9.181	19.497	1.00	78.23
MOTA	6121	N	ALA			76.415	7	3.833	20.636	1.00	54.53
MOTA	6122	CA	ALA	L	157	77.155	7	2.582	20.593	1.00	56.93
MOTA	6123	С	ALA	L	157	76.188	7	1.400	20.417		58.24
ATOM	6124	0	ALA	L	157	75.536	7	0.977	21.375		59.93
MOTA	6125	CB	ALA	L	157	77.970	7	2.424	21.867		55.91
MOTA	6126	N	LEU	L	158	76.097	7	0.856	19.204		57.21
MOTA	6127	CA	LEU			75.167	6	9.754	18.971	1.00	58.02
MOTA	6128	С	LEU	L	158	75.414	6	8.563	19.893		56.60
MOTA	6129	0	LEU	L	158	76.337		7.787	19.692		57.08
MOTA	6130	CB	LEU			75.215	6	9.299	17.504		61.21
MOTA	6131	CG	LEU	L	158	74.453		8.015	17.086		64.28
MOTA	6132	CD1	LEU	L	158	75.396		6,796	17.129		63.06
ATOM	6133	CD2	LEU			73.239		7.776	17.992		63.32
ATOM	6134	N	GLN			74.586		8.430	20.917		55.87
ATOM	6135	CA	GLN			74.703		7.317	21.847		54.76
ATOM	6136	С	GLN			74.818		6.041	21.042		53.20
ATOM	6137	0	GLN			74.499		6.033	19.847		52.24
ATOM	6138	CB	GLN			73.455		7.241	22.722		57.42
MOTA	6139	CG	GLN			73.445		8.244	23.850		58.52
MOTA	6140	CD			159	74.749		8.222	24.623		61.00
MOTA	6141		GLN			75.798		8.631	24.113		63.56
ATOM		NE2	GLN			74.699		7.730	25.853		60.34
ATOM	6143	N	SER			75.266		4.967	21.685		51.92
ATOM	6144	CA	SER			75.396		3.676	20.999		53.99
ATOM	6145	С	SER		160	75.898		2.625	21.95		50.59
ATOM	6146	0	SER		160	75.896		1.424	21.660		48.83
ATOM	6147	CB	SER			76.371		3.764	19.812		59.83
ATOM	6148	OG	SER		160	76.765		2.469	19.370		61.97
ATOM	6149	N	GLY		161	76.354		3.090	23.102		48.52
ATOM	6150	CA	GLY			76.846		2.160	24.084		
ATOM	6151	С	GLY			75.676		1.446	24.71		
ATOM	6152	0	GLY			75.274		0.371	24.249		45.83
ATOM	6153	N	ASN ASN			75.090		2.076	25.732		50.28
ATOM	6154 6155	CA C	ASN		162	73.984		1.456 2.235	26.440 26.720		51.72 52.23
ATOM ATOM	6156	0	ASN			72.660		3.337	27.313		51.63
ATOM	6157	СВ	ASN		162	74.506		0.823	27.72		50.50
ATOM	6158	CG	ASN		162	75.283		9.554	27.45		53.50
ATOM	6159		ASN			75.426		9.132	26.30		53.82
ATOM	6160		ASN			75.791		8.935	28.512		59.23
ATOM	6161	N	SER		163	71.623		1.596	26.23		49.43
ATOM	6162	CA	SER			70.245		2.034			42.83
ATOM	6163	C	SER			69.453		0.721	26.225		41.28
ATOM	6164	Ō	SER			69.886		9.773	25.543		39.26
ATOM	6165	СВ	SER			69.904		2.958	25.162		44.14
ATOM	6166	OG	SER			70.351		2.416	23.919		43.71
ATOM	6167	N	GLN			68.303		0.670	26.895		39.48
ATOM	6168	CA	GLN			67.446		9.481	26.888		36.86
ATOM	6169	C	GLN			65.986		9.764	26.483		34.87
MOTA	6170	0	GLN			65.300		0.619	27.06	_	33.37
ATOM	6171	СВ	GLN			67.471		8.784	28.262		34.61
ATOM	6172	CG	GLN			68.631		7.802	28.463		35.89
ATOM	6173	CD	GLN			68.604		7.107	29.838		40.10
ATOM	6174	OE1				67.817		7.452	30.72		43.31
ATOM	6175		GLN			69.467		6.123	30.013		39.56
ATOM	6176	N	GLU			65.545		9.041	25.45		31.81
ATOM	6177	CA	GLU			64.187		9.120	24.922		24.94
ATOM	6178	С	GLU	L	165	63.318		8.017	25.58		21.34

	42.70	_	CIU I	165	63.8	19 !	56.954	25.996		14.84
MOTA	6179	0	GLU L		64.2	06	58.902	23.394	1.00	22.22
MOTA	6180	CB	GLU L		64.7		60.056	22.546		22.34
MOTA	6181	CG	GLU L		64.3		59.892	21.066		30.38
MOTA	6182	CD	GLU L	165	63.7		58.855	20.747		34.65
MOTA	6183	OE1	GTO T	165	64.7		60.787	20.239		28.30
ATOM	6184		SER L	166	62.0		58.308	25.706		20.80
MOTA	6185	N	SER L	166	61.0		57.365	26.234		17.81
MOTA	6186	CA C	SER L	166	59.7		57.622			12.81
MOTA	6187 6188	0	SER L	166	59.4		58.774	25.208		13.31
MOTA	6189	СВ	SER L	166	60.7	59	57.555			16.34
MOTA	6190	OG	SER L	166	59.6		56.693			16.76
ATOM ATOM	6191	N	VAL L		58.9	93	56.582			
ATOM	6192	CA	VAL L	167	57.7		56.837			8.22 10.72
ATOM	6193	С	VAL L	167	56.5		56.154			17.96
ATOM	6194	0	VAL L	167	56.6		55.278			
ATOM	6195	CB	VAL L	167	58.0		56.369			
ATOM	6196	CG1	VAL L	167	56.8		56.620		-	
ATOM	6197	CG2			59.		57.129	22.23		
ATOM	6198	N	THR L		55.		56.520			
MOTA	6199	CA	THR L	168	54.		55.915		-	
ATOM	6200	С	THR L	168	53.		55.124			
ATOM	6201	0	THR L	168	53.		55.38			
ATOM	6202	CB	THR I	168	53.		56.989 57.95			
MOTA	6203	OG1			52.		57.67			
MOTA	6204	CG2		, 168		735 649	54.16			
MOTA	6205	N	GLU I	169		924	53.38	·		
MOTA	6206	CA	GLU I	. 160 . 169		848	54.26		1.00	15.04
ATOM	6207	С	GLU I			412	55.25		1 1.00	17.71
MOTA	6208	0	GLU I			300	52.16		7 1.00	26.25
MOTA	6209		CIII I	ட் 169		875	50.79		8 1.00	36.99
MOTA	6210					408	50.76			0 42.84
MOTA	6211 6212		1 GLU :	ւ 169		051	51.63	7 23.96		0 42.62
MOTA	6212			ւ 169	53.	957	49.86			0 46.26
ATOM ATOM	6214			L 170		429	53.93			0 12.98
ATOM	6215		GLN	և 170	49	420	54.77			0 17.87
MOTA	6216		GLN	ь 170		.352	55.13			0 21.74 0 18.61
ATOM	6217		GLN	ь 170		.921	54.25		_	0 14.21
ATOM	6218		GLN	ь 170		.778	54.04			
ATOM	6219		GLN	L 170		.734	53.53	_		0 12.30
ATOM	6220	CI) GLN	L 170		.007	53.24		_	0 13.51
MOTA	622		Cl GLN	L 170	48	.773	54.13 51.99			
MOTA	622		E2 GLN	L 170		.623 .937				0 29.43
MOTA	622		ASP	L 171		.905	_		51 1.0	00 35.80
ATOM	622		A ASP	L 171		.594		•		00 38.38
MOTA	622		ASP	L 171		.210		_	90 1.0	00 42.20
MOTA	622			ь 171 ь 171		.629			54 1.0	00 40.84
MOTA				L 171		.952				00 48.83
MOTA			D1 ASP			.720				00 52.33
ATOM			D2 ASP	T. 171		.660		56 23.6		00 52.50
ATOM			SER	L 172		.916		72 23.5		00 34.79
ATOM		_		L 172		6.657		62 23.5		00 32.52
ATOM				L 172		.586		.06 22.9		00 34.38
ATOM ATOM				L 172		1.479	55.6			00 40.03
ATOM		_		L 172		3.307				00 32.13
ATOM		6 0	G SER	L 172	42	2.958				00 42.85
ATOM			LYS	L 173		2.908				00 32.56 00 34.15
ATOM			A LYS	ь 173	4	1.95	1 58.3	343 22.	200 T.	00 24.12

				40 040	58.710	20.907	1.00	32 95
MOTA	6239	С	LYS L 173	42.248	-		-	
ATOM	6240	0	LYS L 173	41.451	58.411	20.029	1.00	
ATOM	6241	CB	LYS L 173	41.939	59.611	23.223	1.00	
MOTA	6242	CG	LYS L 173	40.808	59.694	24.249	1.00	
ATOM	6243	CD	LYS L 173	40.937	60.974	25.104	1.00	55.99
	6244	CE	LYS L 173	41.607	60.692	26.484	1.00	63.08
ATOM				42.651	61.699	26.957	1.00	
ATOM	6245	NZ		43.394	59.337	20.639	1.00	
MOTA	6246	N	ASP L 174			19.269	1.00	
MOTA	6247	CA	ASP L 174	43.751	59.786		1.00	
ATOM	6248	С	ASP L 174	44.733	58.840	18.518		
MOTA	6249	0	ASP L 174	45.123 ·		17.347	1.00	
ATOM	6250	CB	ASP L 174	44.360	61.186	19.351	1.00	
MOTA	6251	CG	ASP L 174	45.525	61.237	20.331	1.00	20.50
ATOM	6252	OD1	ASP L 174	46.074	60.145	20.638	1.00	15.83
ATOM	6253		ASP L 174	45.886	62.346	20.794	1.00	17.75
ATOM	6254	N	SER L 175	45.111	57.755	19.192	1.00	24.98
		CA	SER L 175	46.024	56.808	18.591	1.00	
MOTA	6255			47.248	57.575	18.129	1.00	
MOTA	6256	С	SER L 175			16.958	1.00	
MOTA	6257	0	SER L 175	47.642	57.483			22.95
MOTA	5258	CB	SER L 175	45.353	56.149	17.391	_	
MOTA	6259	OG	SER L 175	44.132	55.542	17.762		25.21
MOTA	6260	N	THR L 176	47.814	58.364	19.039		16.35
ATOM	6261	ÇA	THR L 176	49.009	59.127	18.719		16.44
ATOM	6262	С	THR L 176	50.084	59.000	19.787		20.31
ATOM	6263	0	THR L 176	49.791	58.787	20.969	1.00	25.76
ATOM	6264	CB	THR L 176	48.741	60.594	18.543	1.00	7.77
	6265	OG1	THR L 176	48.397	61.145	19.811	1.00	10.17
MOTA		CG2	THR L 176	47.657	60.810	17.524		9.37
MOTA	6266			51.336	59.117	19.346		19.23
MOTA	6267	N			59.017	20.228		16.17
ATOM	6268	CA	TYR L 177	52.483		20.220		17.81
MOTA	6269	С	TYR L 177	52.835	60.284			
ATOM	6270	0	TYR L 177	52.285	61.359	20.736		21.19
MOTA	6271	CB	TYR L 177	53.681	58.556	19.426		12.68
MOTA	6272	CG	TYR L 177	53.435	57.219	18.819	1.00	6.41
MOTA	6273	CD1	TYR L 177	53.346	56.091	19.611	1.00	2.00
MOTA	6274	CD2	TYR L 177	53.230	57.083	17.456	1.00	7.00
MOTA	6275	CE.	TYR L 177	53.055	54.852	19.051	1.00	2.00
ATOM	6276	CE2		52.937	55.841	16.896	1.00	3.79
ATOM	6277	CZ	TYR L 177	52.853	54.748	17.696	1.00	2.00
ATOM	6278	ОН	TYR L 177	52.563	53.552	17.126	1.00	2.00
	6279	N	SER L 178	53.750	60.127	21.929	1.00	16.93
ATOM ATOM	6280	CA	SER L 178	54.229	61.227	22.745		18.74
			SER L 178	55.533	60.680	23.262	-	20.20
MOTA	6281	С		55.555	59.628	23.889		20.62
MOTA	6282	0	SER L 178		61.516	23.891		17.98
MOTA	6283	CB	SER L 178	53.257				
ATOM	6284	OG	SER L 178	52.032	62.082	23.416		11.95
MOTA	6285	N	LEU L 179	56.628	61.351	22.932		21.09
MOTA	6286	CA	LEU L 179		_60.883	23.361		24.19
MOTA	- 6287	С	LEU L 179	58.546	61.916	24.298		26.34
MOTA	6288	0	LEU L 179	58.156	63.082	24.278		29.52
MOTA	6289	CB	LEU L 179	58.849	60.650	22.122	1.00	23.84
ATOM	6290	CG	LEU L 179	60.397	60.630	22.078	1.00	14.90
MOTA	6291		LEU L 179	60.733	60.685	20.615	1.00	18.72
ATOM	6292		LEU L 179	61.099	61.831	22.746		11.74
		N N	SER L 180	59.525	61.505	25.092		28.13
MOTA	6293			60.150	62.434	26.023		31.18
ATOM	6294	CA	SER L 180		62.278	26.025		35.05
ATOM	6295	С	SER L 180	61.674	61.331	26.644		36.38
ATOM	6296	0	SER L 180	62.215		27.440		33.01
ATOM	6297	CB	SER L 180	59.599	62.214			36.47
MOTA	6298	OG	SER L 180	60.151	61.048	28.051	1.00	30.47

			101	62.361	63,199	25.357	1.00 36.07
MOTA	6299	N	SER L 181		63.189	25.313	1.00 36.85
MOTA	6300	CA	SER L 181			26.477	1.00 33.49
MOTA	6301	С	SER L 181	64.391			1.00 33.64
ATOM	6302	0	SER L 181	64.131	65.196	26.585	1.00 33.04
MOTA	6303	СВ	SER L 181	64.377	63.801	24.011	
ATOM	6304	OG	SER L 181	65.799	63.882	24.044	1.00 38.98.
		И	THR L 182	65.198	63.353	27.317	1.00 29.83
MOTA	6305		THR L 182	65.731	64.055	28.483	1.00 29.02
MOTA	6306	CA		67.232	64.299	28.560	1.00 27.36
MOTA	6307	С	THR L 182	67.957	63.476	29.114	1.00 28.44
MOTA	6308	0	THR L 182		63.339	29.789	1.00 28.69
MOTA	6309	CB	THR L 182	65.370		29.799	1.00 31.58
MOTA	6310	OG1	THR L 182	63.982	62.991		1.00 22.58
MOTA	6311	CG2	THR L 182	65.702	64.221	30.960	1.00 27.13
ATOM	6312	N	LEU L 183	67.703	65.437	28.053	
ATOM	6313	CA	LEU L 183	69.128	65.746	28.132	1.00 25.68
	6314	C	LEU L 183	69.460	65.856	29.612	1.00 25.94
MOTA		0	LEU L 183	68.651	66.326	30.399	1.00 22.38
ATOM	6315		LEU L 183	69.452	67.066	27.457	1.00 24.73
MOTA	6316	CB		70.951	67.365	27.511	1.00 25.76
MOTA	6317	ÇG	LEU L 183	71.484	67.194	26.082	1.00 26.29
MOTA	6318	CD1				28.068	1.00 13.87
MOTA	6319	CD2	LEU L 183	71.261	68.765		1.00 31.95
ATOM	6320	N	THR L 184	70.654	65.430	29.997	1.00 37.86
ATOM	6321	CA	THR L 184	71.017	65.467	31.408	
MOTA	6322	С	THR L 184	72.486	65.836	31.672	1.00 42.21
ATOM	6323	Ö	THR L 184	73.404	65.041	31.446	1.00 43.13
	6324	СВ	THR L 184	70.666	64.110	32.070	1.00 35.49
ATOM				70.729	64.239	33.496	1.00 36.29
MOTA	6325	OG1		71.601	63.004	31.580	1.00 34.90
MOTA	6326	CG2		72.689	67.056	32.164	1.00 44.24
MOTA	6327	N	LEU L 185		67.575	32.455	1.00 45.90
MOTA	6328	CA	LEU L 185	74.016		33.942	1.00 49.75
MOTA	6329	С	LEU L 185	74.308	67.596	34.771	1.00 49.58
MOTA	6330	0	LEU L 185	73.437	67.332		1.00 41.99
ATOM	6331	CB	LEU L 185	74.150	68.990	31.901	
MOTA	6332	CG	LEU L 185	73.959	69.094	30.387	1.00 44.70
ATOM	6333	CD:	1 LEU L 185	74.505	70.415	29.865	1.00 47.17
MOTA	6334	CD		74.686	67.961	29.717	1.00 45.29
	6335	N	SER L 186	75.559	67.889	34.279	1.00 53.64
MOTA	6336	CA	SER L 186	75.945	67.988	35.681	1.00 56.80
MOTA			SER L 186	75.668	69.440	36.050	1.00 59.28
MOTA	6337	С		75.972	70.347	35.251	1.00 59.52
ATOM	6338		SER L 186	77.436	67.709	35.850	1.00 56.25
MOTA	6339		SER L 186			35.129	1.00 59.51
MOTA	6340	OG	SER L 186	78.190		37.233	1.00 59.26
MOTA	6341	N	LYS L 187	75.089		37.701	1.00 60.49
MOTA	6342	CA		74.784			
ATOM	6343	С	LYS L 187	75.855			1.00 58.40
ATOM	6344		LYS L 187	75.584			1.00 50.27
ATOM	6345		400	74.727			
	6346			74.339	72.471		
MOTA				75.558		39.991	1.00 64.49
MOTA	6347			75.554			1.00 67.14
MOTA	6348			74.164			1.00 71.39
MOTA	6349					_	
MOTA	6350		ALA L 188	77.083			
ATOM	635:			78.242			
MOTA	6352	2 C	ALA L 188	78.029			
ATOM	6353	3 0	ALA L 188	77.690			10
MOTA	635			79.486	5 71.369	36.949	
MOTA	635		ASP L 189	78.207			
ATOM	635			78.046	5 71.709		
			ASP L 189	76.84			1.00 58.52
MOTA			ASP L 189	76.90			
MOTA	635	8 0	Vat n 103	, 0. 5 -			

ATOM	6359	СВ	ASP L	189	77.919	70.361	32.346	1.00	64.58
ATOM	6360		ASP L		79.260	69.746	32.064	1.00	71.31
ATOM	6361			189	80.035	69.540	33.036	1.00	74.63
ATOM	6362			189	79.534	69.481	30.867	1.00	74.84
	6363		TYR L		75.746	72.322	33.393	1.00	56.92
MOTA		-		190	74.562	73.097	33.112		57.92
MOTA	6364		TYR L		74.823	74.577	33.338		59.06
MOTA	6365		TYR L		74.665	75.394	32.422		58.60
ATOM	6366				73.394	72.630	33.969		58.40
ATOM	6367	CB	TYR L				33.645		55.72
ATOM	6368		TYR L		72.102	73.360	32.329		51.07
MOTA	6369		TYR L		71.635	73.458			
MOTA	6370		TYR L		71.376	74.002	34.652		52.28
MOTA	6371		TYR L		70.488	74.184	32.032		50.63
MOTA	6372		TYR L		70.234	74.729	34.364		49.61
MOTA	6373	CZ	TYR L		69.803	74.819	33.058		49.57
MOTA	6374	OH	TYR L		68.703	75.577	32.774		51.20
ATOM	6375	N	GLU L	191	75.235	74.921	34.555		61.26
MOTA	6376	CA	GLU L	191	75.529	76.319	34.900		63.04
ATOM	6377	С	GLU L	191	76.632	76.877	33.989		60.73
ATOM	6378	0	GLU . L	191	76.872	78.083	33.933	1.00	57.21
ATOM	6379	CB	GLU L		75.970	76.430	36.372	1.00	67.74
ATOM	6380	CG			74.892	76.955	37.339	1.00	74.23
ATOM	6381	CD	GLU L		74.986	76.367	38.756	1.00	77.78
ATOM	6382	OE1	GLU L		73.954	75.867	39.259	1.00	80.33
ATOM	6383	OE2	GLU L		76.078	76.410	39.369	1.00	76.01
ATOM	6384	N	LYS L		77.295	75.082	33.270		60.30
ATOM	6385	CA	LYS L		78.366	76.368	32.371		62.20
	6386	C	LYS L		77.881	76.906	31.024		61.29
ATOM	6387		LYS L		78.665	77.518	30.291		62.52
MOTA		O	LYS L		79.307	75.170	32.130		65.73
ATOM	6388	CB	LYS L		79.140	74.470	30.754		66.78
ATOM	6389	CG			79.140	73.167	30.734		66.31
ATOM	6390	CD	LYS L			72.088	29.859	1.00	
MOTA	6391	CE	LYS L		79.201		28.679		60.75
MOTA	6392	NZ	LYS L		79.969	71.560			57.66
ATOM	6393	N	HIS L		76.611	76.693	30.683		55.25
MOTA	6394	CA		193	76.129	77.172	29.385		
ATOM	6395	С	HIS L		74.900	78.091	29.322		53.42
MOTA	6396	0	HIS L		74.136	78.226	30.279		53.59
ATOM	6397	CB	HIS L		75.926	75.993	28.450		55.34
ATOM	6398	CG		193	77.202	75.333	28.038		56.74
ATOM	6399		HIS L		78.271	76.031	27.525		55.66
ATOM	6400			193	77.584	74.036	28.091		58.46
MOTA	6401			193	79.265	75.191	27.284		59.66
MOTA	6402	NE2	HIS L		78.875	73.976	27.620		57.96
ATOM	6403	N	LYS L		74.713	78.721	28.167		48.83
ATOM	6404	CA	LYS L	194	73.620	79.656	28.014		48.86
MOTA	6405	С	LYS L	194	72.354	79.073	27.433		48.18
MOTA	6406	0	LYS L	194	71.319	79.015	28.096	1.00	51.85
ATOM	6407	CB	LYS L	194	74.060	80.850	27.159	1.00	51.99
ATOM	6408	CG	LYS L		72.937	81.853	26.864	1.00	55.92
ATOM	6409	CD	LYS L		72.999	83.085	27.765	1.00	62.65
ATOM	6410	CE	LYS L		73.324	82.729	29.233		68.19
ATOM	6411	NZ	LYS L		74.797	82.815	29.551		68.53
ATOM	6412	N	VAL L		72.428	78.633	26.191		41.26
ATOM	6413	CA	VAL L		71.245	78.123	25.560		36.92
ATOM	6414	C	VAL L		71.193	76.622	25.352		36.76
ATOM	6415	0	VAL L		72.094	76.029	24.783		38.21
MOTA	6416	СВ	VAL L		71.017	78.855	24.222		35.08
ATOM					71.854	80.100	24.192		28.23
	6417		VAL L		71.334	77.931	23.030		38.16
MOTA	6418	CG2	VAL I	132	11.319	11.531	23.030	1.00	50.10

							nc 017	25 022	1.00 3	5 73
MOTA	6419		TYR L			70.109	76.017		1.00 3	
MOTA	6420		TYR L			69.873	74.590		1.00 3	
ATOM	6421		TYR L			68.719	74.465	24.709	1.00 3	
ATOM	6422		TYR L			67.743	75.198	24.832	1.00 3	
MOTA	6423	CB '	TYR L	196		69.507	74.010	27.032	1.00 4	
ATOM	6424		TYR L			70.699	73.992	27.953	1.00 4	
ATOM	6425		TYR L			71.516	72.871	28.025	1.00 4	
ATOM	6426		TYR L		•	71.050	75.113	28.719	1.00	
MOTA	6427		TYR L			72.658	72.853	28.834	1.00	
ATOM	6428		TYR L			72.196	75.103	29.535	1.00	
MOTA	6429		TYR L			72.989	73.959	29.581	1.00	
MOTA	6430		TYR L			74.107	73.888	30.374	1.00	
ATOM	6431		ALA L			68.829	73.568	23.730	1.00	
ATOM	6432	CA	ALA L			67.768	73.422	22.732	1.00	
MOTA	6433	С	ALA L			67.587	72.037	22.136	1.00	
ATOM	6434	0	ALA L	197		68.530	71.434	21.620	1.00	
ATOM	6435	CB	ALA L			67.999	74.398	21.617	1.00	
MOTA	6436	N	CYS L			66.360	71.538	22.209	1.00	
ATOM	6437	CA	CYS L			66.044	70.252	21.630	1.00	
MOTA	6438	С	CYS L			65.366	70.576	20.271		26.32
ATOM	6439	0	CYS L			64.471	71.426	20.187		27.10
ATOM	6440	CB	CYS I			65.153	69.440	22.593		
ATOM	6441	SG	CYS I			63.406	69.514	22.162		34.88 26.23
MOTA	6442	N	GLU I			65.880	69.957	19.207		27.23
MOTA	6443	CA	GLU I			65.388	70.152	17.845		26.60
MOTA	6444	С	GLU I			64.790	68.844	17.305		24.63
ATOM	6445	0	GLU I			65.462	67.803	17.255		34.59
MOTA	6446	CB	GLU I			66.552	70.620	16.978		46.30
MOTA	6447	CG	GLU I			66.261	70.800	15.503		51.58
MOTA	6448	CD	GLU I			67.525	70.674	14.628		48.33
ATOM	6449	OE1				68.496	69.979	15.037 13.521		57.38
ATOM	6450	OE2				67.537	71.278	16.940		24.91
MOTA	6451	N		ւ 200		63.506	68.898	16.451		20.79
MOTA	6452	CA		և 200		62.797	67.719 67.780	15.006		20.10
ATOM	6453	С		L 200		62.371	68.793	14.519		18.59
MOTA	6454	0		L 200		61.878	67.453	17.290		18.89
MOTA	6455	CB		L 200		61.545	68.737	17.986	1.00	14.97
MOTA	6456	CG1		L 200		61.136 60.415		16.402		19.86
MOTA	6457	CG2				62.548		14.339		18.95
MOTA	6458	N		L 201		62.204		12.944		18.27
MOTA	6459			L 201		61.145		12.895		17.87
MOTA	6460			L 201		61.256		13.605	1.00	13.66
MOTA	6461			L 201 L 201		63.400		12.171	1.00	19.86
ATOM	6462		THR			64.547		13.041	1.00	29.56
MOTA	6463		2 THR			63.637		10.961		21.86
MOTA	6464		UTC	ь 202		60.145				15.39
ATOM	6465 6466			ь 202 ь 202		59.040			1.00	10.75
MOTA	6467			ь 202 ь 202		58.083			1.00	
MOTA	6468			L 202		57.710				12.22
ATOM ATOM	6469			ь 202		58.287		13.241		15.45
ATOM	6470			L 202		57.055		13.229		17.01
MOTA	6471			L 202		56.022				19.13
MOTA	6472			ь 202		56.699		13.974		11.38
ATOM	6473			L 202		55.082		12.531		16.41
ATOM	6474			ь 202		55.469		13.526		18.50
MOTA	6475		GLN	ь 203		57.695		9.964		
MOTA	6476			L 203		56.764	4 64.199			
MOTA	647			ь 203		55.74		8.974		
MOTA	6478			L 203		55.45			3 1.00	0 6.66

						60 010	8.679	1.00 2.00
MOTA	6479	CB	GLN L	203	55.994	62.910	7.327	1.00 3.75
ATOM	6480	CG	GLN L		55.476	62.612		1.00 16.23
ATOM	6481	CD	GLN L	203	54.773	61.241	7.274	
ATOM	6482	OE1	GLN L	203	53.635	61.139	6.818	1.00 24.80
ATOM	6483	NE2	GLN L	203	55.456	60.184	7.726	1.00 19.23
ATOM	6484	N	GLY L	204	55.113	65.314	10.131	1.00 7.68
	6485	CA	GLY L	204	54.118	66.329	10.345	1.00 12.94
ATOM			GLY L	201	54.715	67.678	10.041	1.00 15.37
MOTA	6486	С	GLY L	204	54.373	68.307	9.025	1.00 20.10
MOTA	6487	0	GPI P	204	55.647	68.079	10.914	1.00 16.29
MOTA	6488	N	LEU L		56.335	69.370	10.837	1.00 13.48
MOTA	6489	CA	LEU L		56.787	69.668	9.449	1.00 14.10
MOTA	6490	С	LEU L		-		8.881	1.00 14.96
MOTA	6491	Ο,	LEU L		57.561	68.919		1.00 9.22
ATOM	6492	CB	LEU L		57.568	69.372	11.718	1.00 12.33
ATOM	6493	CG	LEU L		57.279	69.683	13.170	
ATOM	6494	CDl	LEU L	205	55.984	69.003	13.526	1.00 15.70
ATOM	6495	CD2	LEU L	205	58.413	69.200	14.084	1.00 12.01
ATOM	6496	N	SER L	206	56.316	70.768	8.889	1.00 18.87
ATOM	6497	CA	SER L	206	56.736	71.110	7.541	1.00 21.84
		C	SER L		58.248	71.225	7.569	1.00 21.90
ATOM	6498		SER L	206	58.900	71.164	6.530	1.00 23.25
ATOM	6499	0	SER L	206	56.120	72.448	7.097	1.00 24.48
MOTA	6500	CB			56.937	73.102	6.138	1.00 26.34
MOTA	6501	OG	SER L	200	58.801	71.395	8.769	1.00 23.44
MOTA	6502	N	SER I	207		71.541	8.929	1.00 27.50
MOTA	6503	CA	SER I		60.245		10.399	1.00 27.95
ATOM	6504	С	SER I		60.693	71.499		1.00 27.33
MOTA	6505	0	SER I		59.918	71.793	11.293	1.00 33.71
MOTA	6506	CB	SER I		60.657	72.868	8.325	
ATOM	6507	OG	SER I	207	59.523	73.528	7.781	1.00 33.98
ATOM	6508	N	PRO I	208	61.965	71.174	10.658	1.00 24.10
ATOM	6509	CA	PRO I	208	62.511	71.091	12.017	1.00 20.05
ATOM	6510	C	PRO I		62.178	72.218	12.956	1.00 20.06
ATOM	6511	ō	PRO I		62.621	73.360	12.824	1.00 23.02
ATOM	6512	СВ		208	63.999	70.927	11.798	1.00 17.80
ATOM	6513	CG		L 208	64.051	70.175	10.499	1.00 20.81
ATOM	6514	CD	PRO 1		62.973	70.816	9.650	1.00 23.68
	6515	N		ւ 209	61.349	71.854	13.913	1.00 21.19
MOTA		CA		ն 209	60.899	72.750	14.936	1.00 23.07
MOTA	6516		VAL		61.978	72.710	16.010	1.00.27.01
MOTA	6517	С		ь 209 ь 209	62.345	71.638	16.506	1.00 28.44
MOTA	6518	0			59.528	72.254	15.518	1.00 18.99
MOTA	6519	CB		L 209	59.239		16.867	1.00 18.87
MOTA	6520	CG			58.419		14.551	1.00 13.80
ATOM	6521		2 VAL	ь 209			16.353	1.00 29.81
MOTA	6522	N	THR	L 210	62.518		17.414	1.00 23.02
ATOM	6523		THR	ь 210	63.521			1.00 31.44
MOTA	6524	С	THR	L 210	62.867		18.636	
ATOM	6525	0		L 210	62.053		18.493	1.00 33.66
ATOM	6526	CB	THR	L 210	64.757		17.028	1.00 27.86
ATOM	6527		1 THR	L 210	65.461		15.938	1.00 23.82
ATOM	6528	_		L 210	65.699		18.214	1.00 24.54
MOTA	6529			L 211	63.223		19.828	
ATOM	6530			L 211	62.651		21.025	
	6531			L 211	63.793		22.003	1.00 37.39
MOTA				L 211	64.369			1.00 42.55
MOTA	6532			L 211	61.585			
ATOM	6533			ь 211 ь 211	60.477			
MOTA	6534				59.341			
MOTA	6535		. тлэ	ь 211				
MOTA	6536			ь 211	58.043			
MOTA	6537			L 211	58.063			
MOTA	6538	3 N	SER	L 212	64.117	76.179	22.23	. 2.00 00.00

MOTA	6539	CA	SER L	212	65.227	76.512	23.111	1.00 32.68
ATOM	6540	C	SER L		64.875	77.461	24.211	1.00 32.28
			SER L		63.798	78.031	24.243	1.00 32.97
MOTA	6541	0						1.00 37.16
ATOM	6542	CB	SER L		66.308	77.162	22.287	
ATOM	6543	OG	SER L	212	65.713	78.027	21.327	1.00 37.55
ATOM	6544	N	PHE L		65.822	77.652	25.105	1.00 34.79
			PHE L		65.645	78.568	26.215	1.00 40.69
MOTA	6545	CA						
MOTA	6546	С	PHE L		67.036	78.863	26.727	1.00 46.49
ATOM	6547	0	PHE L	213	67.977	78.126	26.431	1.00 48.68
ATOM	6548	СВ	PHE L		64.776	77.942	27.327	1.00 37.05
			PHE L		65.509	76.969	28.222	1.00 34.10
ATOM	6549	CG						1.00 38.83
MOTA	6550	CD1	PHE L		65.410	75.595	28.002	
MOTA	6551	CD2	PHE L	213	66.305	77.427	29.260	1.00 31.56
MOTA	6552	CE1	PHE L	213	66.097	74.689	28.795	1.00 39.92
	6553	CE2	PHE L		67.001	76.546	30.060	1.00 34.33
MOTA					66.901	75.166	29.831	1.00 40.98
MOTA	6554	CZ	PHE L					
ATOM	6555	N	ASN L	214	67.165	79.936	27.497	1.00 51.61
MOTA	6556	CA	ASN L	214	68.449	80.312	28.069	1.00 55.27
ATOM	6557	C	ASN L		68.333	80.364	29.582	1.00 56.89
			ASN L		67.322	80.821	30.105	1.00 58.12
MOTA	6558	0						
MOTA	6559	CB	ASN L		68.863	81.664	27.525	1.00 60.09
MOTA	6560	CG	ASN L	214	68.974	81.658	26.016	1.00 67.01
ATOM	6561	OD1	ASN L	214	68.002	81.338	25.310	1.00 67.23
ATOM	6562		ASN L		70.164	82.003	25.505	1.00 70.05
					69.359	79.891	30.283	1.00 58.33
ATOM	6563	N	ARG L					
ATOM	6564	CA	ARG L		69.332	79.392	31.739	1.00 62.17
MOTA	6565	С	ARG L	215	68.962	81.283	32.277	1.00 64.50
ATOM	6566	0	ARG L	215	69.372	82.296	31.657	1.00 66.38
ATOM	6567	СВ	ARG L		70.696	79.468	32.292	1.00 63.52
					71.499	78.535	31.388	1.00 65.10
ATOM	6568	CG	ARG L					
MOTA	6569	CD	ARG L		72.485	77.728	32.220	1.00 68.68
ATOM	6570	NE	ARG L	215	73.563	78.578	32.713	1.00 74.05
ATOM	6571	CZ	ARG L		73.546	79.216	33.881	1.00 77.82
ATOM	6572		ARG L		72.501	79.104	34.699	1.00 78.37
					74.578	79.977	34.232	1.00 80.06
ATOM	6573		ARG I					
ATOM	6574	OT	ARG L	215	68.263	81.345	33.314	1.00 66.11
ATOM	6575	N	GLN K	1	112.568	17.707	32.546	1.00 53.56
ATOM	6576	CA	GLN K	1	112.968	16.483	31.770	1.00 51.30
ATOM	6577	С	GLN K		111.908	15.389	31.935	1.00 44.53
					111.522	15.075	33.071	1.00 50.55
MOTA	6578	0	GLN K					1.00 60.35
ATOM	6579	CB	GLN K		114.333	15.955	32.271	
MOTA	6580	CG	GLN K	1	115.178	16.941	33.139	1.00 66.66
ATOM	6581	CD	GLN K	1	116.660	16.932	32.766	1.00 69.02
ATOM	6582	OE1			117.535	16.900	33.634	1.00 68.46
					116.940	16.955	31.462	1.00 70.09
MOTA	6583	NE2						1.00 29.97
ATOM	6584	N	VAL F		111.446	14.794	30.838	
ATOM	6585	CA	VAL F	2	110.429	13.748	30.954	1.00 20.19
ATOM	6586	С	VAL F	2	111.076	12.415	31.305	1.00 20.37
MOTA	6587	0	VAL F		111.749	11.826	30.465	1.00 24.40
					109.691	13.576	29.645	1.00 17.74
MOTA	6588	CB	VAL I					
MOTA	6589		. VAL I		110.687	13.736	28.519	1.00 24.15
ATOM	6590	CG2	VAL I		108.973	12.207	29.587	1.00 8.84
ATOM	6591	N	GLN H		110.877	11.906	32.517	1.00 15.61
ATOM	6592	CA	GLN H		111.504	10.641	32.832	1.00 18.09
					110.638	9.539	33.477	1.00 18.88
MOTA	6593	С	GLN I					
ATOM	6594	0	GLN I		109.614	9.809	34.088	1.00 23.49
MOTA	6595	CB	GLN I		112.780	10.901	33.648	1.00 22.53
ATOM	6596	CG	GLN 1		112.598	11.502	35.038	1.00 36.03
ATOM	6597	CD	GLN I		113.863	11.401	35.930	1.00 40.83
					114.924	10.961	35.480	1.00 42.40
MOTA	6598	OE]	L GLN I	, ,	114.744	10.501	55.300	2.00 12.10

	4500				_		110 700	,	11 007	37.201	7 00	41.49
MOTA	6599	NE2	GLN		3		113.737		11.807			
MOTA	6600	N	LEU	K	4		111.035	5	8.283	33.294	1.00	15.58
MOTA	6601	CA	LEU	K	4		110.327	7	7.145	33.867	1.00	9.36
ATOM	6602	C	LEU		4		111.30	ı	6.364	34.710	1.00	10.52
					4		112.245		5.796	34.192		18.66
ATOM	6603	0	LEU		_							
ATOM	6604	CB	LEU	K	4		109.853		6.197	32.786	1.00	6.61
MOTA	6605	CG	LEU	K	4		108.924	1	6.704	31.714	1.00	10.23
ATOM	6606	CD1	LEU	K	4		108.463	Ĺ	5.469	30.885	1.00	6.06
ATOM	6607		LEU		4		107.809	9	7.502	32.350	1.00	9.33
ATOM	6608	N	VAL		5		111.062		6.252	35.996	1.00	6.56
									5.508	36.818	1.00	7.41
MOTA	6609	CA	VAL		5		111.998					
ATOM	6610	С	$_{ m LAV}$	K	5		111.58	4	4.131	37.325	1.00	6.14
ATOM	6611	0	VAL	K	5		111.016	5	4.029	38.389	1.00	11.98
ATOM	6612	CB	VAL	K	5		112.373	3	6.367	37.984	1.00	6.83 _.
ATOM	6613	CG1			5	•	113.48	7	5.759	38.778	1.00	4.49
ATOM	6614		VAL		5		112.77		7.704	37.441	1.00	7.61
									3.068	36.612	1.00	4.95
ATOM	6615	N	GLN		6		111.942					
ATOM	£616	CA	GLN		6		111.56		1.703	37.007	1.00	6.70
MOTA	C617	С	GLN	K	6		112.09	5	1.327	38.385	1.00	6.76
ATOM	6618	0	GLN	K	6		112.93	5	2.004	38.940	1.00	7.25
ATOM	6619	CB	GLN	K	6		112.07	5	0.680	35.978	1.00	8.88
ATOM	6620	CG	GLN		6		111.03		-0.205	35.324		14.46
					6		111.11		-0.237	33.801		18.35
ATOM	6621	CD	GLN							33.147		
ATOM	6622	OE1	GLN		6		111.61		0.690			17.00
ATOM	6623	NE2	GLN	K	6		110.59	6	-1.317	33.230		21.93
ATOM	6624	N	SER	K	7		111.60	2	0.222	38.918		11.06
ATOM	6625	CA	SER	K	7		111.99	4	-0.283	40.235	1.00	10.46
ATOM	6626	С	SER		7		113.23	5	-1.142	40.206	1.00	9.61
ATOM	6627	Ö	SER		7		113.72		-1.513	39.133		12.24
	6628	СВ	SER		7		110.86		-1.142	40.806		12.56
ATOM												23.23
MOTA	6629	ÓС	SER		7		110.98		-2.521	40.420		
ATOM	6630	N	GLY	K	8		113.65		-1.556	41.401	1.00	9.16
MOTA	6631	CA	${ t GLY}$	K	8		114.84	0	-2.389	41.547	1.00	9.15
ATOM	6632	С	GLY	K	8		114.75	7	-3.780	40.967	1.00	4.94
ATOM	6633	0	GLY	K	8		113.68	4	-4.293	40.747	1.00	5.86
ATOM	6634	N	ALA		9		115.89	8	-4.392	40.698	1.00	9.43
ATOM	6635	CA	ALA		9		115.91		-5.755	40.136		16.23
	6636		ALA		9		115.25		-6.738	41.076		14.22
ATOM		С										
MOTA	6637	0	ALA		9		115.21		-6.511	42.265		17.80
ATOM	6638	CB	ALA		9		117.38		-6.219	39.828		16.99
ATOM	6639	N	\mathtt{GLU}	K	10		114.76	9	-7.851	40.566		16.40
ATOM	6640	CA	GLU	K	10		114.12	5	-8.815	41.444	1.00	22.08
ATOM	6641	С	GLU	K	10		114.55	0	-10.248	41.154	1.00	23.67
ATOM	6642	0	GLU	K	10		114.56	2	-10.697	39.994	1.00	29.46
ATOM	6643	СВ	GLU		10		112.61		-8.711	41.266	1.00	29.21
ATOM	6644	CG	GLU		10		111.85		-8.198	42.455		38.15
ATOM	6645	CD	GLU		10		111.43		-6.733	42.292		49.18
ATOM	6646	OE1			10		111.25		-6.276	41.133		47.26
ATOM	6647	OE2	GLU	K	10		111.28	5	-6.031	43.330	1.00	56.10
MOTA	6648	N	VAL	K	11		114.89	6	-10.988	42.193	1.00	23.25
ATOM	6649	CA	VAL		11				-12.381	41.986	1.00	27.60
MOTA	6650	C	VAL		11				-13.224	42.634		30.36
										43.814		33.68
ATOM	6651	0	VAL		11				-13.086			
MOTA	6652	CB	VAL		11				-12.709	42.622		23.12
ATOM	6653		VAL		11				-13.719	41.772		19.05
MOTA	6654	CG2	VAL	K	11		117.55	9	-11.465	42.731		16.13
ATOM	6655	N	VAL	K	12		113.57	5	-14.106	41.874	1.00	30.35
ATOM	6656	CA	VAL		12				-14.865	42.449	1.00	29.88
ATOM	6657	C	VAL		12				-16.286	41.972		31.38
	6658	Ö	VAL		12				-16.555	40.815		35.50
ATOM	0000	J	νΛΩ	1/	12		112.14	J	T0.322	30.013	1.00	55.50

ATOM	6659	CB VAL K	12	111.188 -1 110.978 -1			1.00 32.37 1.00 33.90
MOTA	6660	CG1 VAL K	12	110.086 -1	– – –		1.00 40.35
MOTA	6661	CG2 VAL K	12	112.000 -1			1.00 28.82
MOTA	6662	N LYS K	13	111.874 -1		42.571	1.00 27.70
MOTA	6663	CA LYS K	13	110.723 -1		41.640	1.00 24.52
MOTA	6664	C LYS K	13	100.723 -1		41.648	1.00 24.31
MOTA	6665	O LYS K	13	111.626 -1	10.025	43.840	1.00 29.94
MOTA	6666	CB LYS K	13	111.586 -1	10 500	45.066	1.00 40.93
MOTA	6667	CG LYS K	13	110.348 -3	17 500	45.056	1.00 46.55
MOTA	6668	CD LYS K	13	110.600 -		45.786	1.00 47.03
ATOM	6669	CE LYS K	13	112.009 -		45.652	1.00 52.71
MOTA	6670	NZ LYS K	13	110.788		40.808	1.00 24.59
ATOM	6671	N PRO K	14	109.734 -		39.835	1.00 26.90
ATOM	6672	CA PRO K	14	108.395 -		40.497	1.00 28.27
MOTA	6673	C PRO K	14	108.312	20.357	41.700	1.00 32.40
MOTA	6674	O PRO K	14	110.133 -	21.483	39.270	1.00 28.12
MOTA	6675	CB PRO K	14	111.621 -		39.447	1.00 30.33
ATOM	6676	CG PRO K	14 14	111.903 -		40.741	1.00 25.77
ATOM	6677	CD PRO K	15	107.334 -	20.069	39.721	1.00 28.56
ATOM	6678	N GLY K	15	106.026 -		40.328	1.00 26.48
ATOM	6679		15	105.605 -	18.911	41.090	1.00 23.49
MOTA	6680	C GLY K	15	104.427 -	18.626	41.142	1.00 30.37
ATOM	6681 6682	N ALA K	16	106.541 -	18.167	41.661	1.00 22.02
MOTA	6683	CA ALA K	16	106.199 -	16.958	42.406	1.00 21.41
MOTA	6684	C ALA K	16	105.601 -	15.880	41.503	1.00 23.45
ATOM ATOM	6685	O ALA K	16	105.222 -	16.125	40.355	1.00 27.62
ATOM	6686	CB ALA K	16	107.417 -	-16.416	43.052	1.00 19.75
ATOM	6687	N SER K	17	105.506 -	-14.672	42.027	1.00 22.42
MOTA	6688	CA SER K	17	104.990 -	-13.588	41.228	1.00 27.29
MOTA	6689	C SER K	17	105.635 -	-12.320	41.719	1.00 28.38
ATOM	6690	O SER K	17	105.979 -	-12.196	42.881	1.00 30.51
ATOM	6691	CB SER K	17		-13.524	41.333	1.00 35.79 1.00 45.45
ATOM	6692	OG SER K	17	102.907 -	-14.625	40.638	1.00 45.45 1.00 27.78
ATOM	6693	n val k	18	105.829		40.817	1.00 27.78
ATOM	6694	CA VAL K	18	106.503		41.168 40.627	1.00 23.40
ATOM	6695	C VAL K	18	105.715	-8.946	39.584	1.00 24.00
ATOM	6696	O VAL K		105.031	-9.038	40.576	1.00 25.22
ATOM	6697	CB VAL K		107.936	10.200	39.078	1.00 24.67
ATOM	6698	CG1 VAL K		107.863 108.653	-8.895	40.794	1.00 28.85
ATOM	6699	CG2 VAL K		105.814	-7.813	41.317	1.00 16.44
MOTA	6700	N LYS K	_	105.014	-6.659	40.882	1.00 13.41
ATOM	6701	CA LYS K		105.954	-5.468	40.555	1.00 16.13
MOTA	6702	C LYS K		106.382	-4.730	41.441	1.00 17.76
ATOM	6703		_	104.053	-6.309	41.965	1.00 12.45
MOTA	6704			102.895	-5.461	41.504	1.00 16.23
ATOM	6705			102.720	-4.219	42.361	1.00 26.19
ATOM	6706			101.227	-3.862	42.467	1.00 40.64
ATOM	6707 6708			100.889	-2.651	43.301	1.00 46.57
ATOM ATOM	6709			106.250	-5.289	39.274	1.00 14.27
	6710			107.094	-4.196	38.869	1.00 9.88
MOTA MOTA	6711			106.383	-2.892	38.879	
ATOM	6712			105.235	-2.824	38.496	1.00 12.20
ATOM	6713			107.634	-4.452		
ATOM	6714			108.827	-5.406		
ATOM	6715			108.742	-6.530		
ATOM	6716			108.871	-5.981		
ATOM	6717	N SER	K 21	107.094	-1.848		
ATOM	6718		K 21	106.537	-0.511	39.267	1.00 10.24

ATOM	6719	С	SER K	21	107.343	0.416	38.328	1.00 20.43
ATOM	6720	0	SER K	21	108.528	0.176	38.065	1.00 21.29
ATOM	6721	СВ	SER K	21	106.615	0.087	40.652	1.00 20.71
				21	107.421	1.260	40.622	1.00 29.18
ATOM	6722	OG	SER K				37.870	1.00 18.68
MOTA	6723	N	CYS K	22	106.711	1.494		
ATOM	6724	CA	CYS K	22	107.348	2.493	37.007	1.00 18.59
ATOM	6725	С	CYS K	22	106.729	3.892	37.304	1.00 20.58
ATOM	6726	0	CYS K	22	105.545	4.160	37.081	1.00 17.93
ATOM	6727	CB	CYS K	22	107.182	2.100	35.526	1.00 19.96
ATOM	6728	SG	CYS K	22	107.335	3.441	34.303	1.00 21.71
ATOM	6729	N	LYS K	23	107.550	4.801	37.787	1.00 20.19
ATOM	6730	CA	LYS K	23	107.061	6.113	38.131	1.00 20.63
				23	107.427	7.160	37.086	1.00 22.88
ATOM	6731	С	LYS K					1.00 27.07
ATOM	6732	0	LYS K	23	108.596	7.526	36.942	
MOTA	6733	CB	ras k		107.656	6.487	39.467	1.00 26.12
ATOM	6734	CG	LYS K		107.318	7.877	39.930	1.00 35.74
MOTA	6735	CD	LYS K	23	107.374	7.959	41.462	1.00 43.54
ATOM	6736	CE	LYS K	23	106.888	9.322	41.985	1.00 44.03
MOTA	6737	NZ	LYS K	23	107.950	10.367	41.940	1.00 41.60
ATOM	6738	N	аца к		106.432	7.654	36.363	1.00 22.98
ATOM	6739	CA	ALA K		106.653	8.680	35.329	1.00 23.79
ATOM	6740	C	ALA K		106.776	10.059	35.947	1.00 20.75
			ALA K		106.448	10.238	37.107	1.00 23.77
MOTA	6741	0					34.310	1.00 23.77
ATOM	6742	CB	ALA K		105.488	8.696		
ATOM	6743	N	SER K		107.224	11.031	35.161	1.00 16.67
ATOM	6744	CA	SER K		107.349	12.388	35.640	1.00 14.86
MOTA	6745	С	SER K		107.865	13.253	34.506	1.00 15.72
ATOM	6746	0	SER K	25	108.409	12.747	33.533	1.00 20.98
ATOM	6747	CB	SER K		108.296	12.421	36.822	1.00 13.94
ATOM	6748	OG	SER K	25	109.619	12.618	36.395	1.00 26.69
ATOM	6749	N	GLY K	26	107.650	14.553	34.601	1.00 13.03
ATOM	6750	CA	GLY K		108.133	15.435	33.562	1.00 14.11
ATOM	6751	С	GLY K		107.115	15.711	32.481	1.00 15.76
ATOM	6752	ō	GLY K		107.357	16.495	31.548	1.00 17.53
ATOM	6753	N	TYR K		105.955	15.083	32.621	1.00 17.38
			TYR K		103.333	15.258	31.665	1.00 17.50
ATOM	6754	CA						1.00 19.99
MOTA	6755	С	TYR K		103.481	14.937	32.271	
MOTA	6756	0	TYR K		103.361	14.526	33.431	1.00 22.36
MOTA	6757	CB	TYR K		105.136	14.393	30.436	1.00 15.22
MOTA	6758	CG	TYR K		105.022	12.916	30.699	1.00 12.77
ATOM	6759	CD1	TYR K		105.986	12.251	31.449	1.00 11.66
ATOM	6760	CD2	TYR K		103.948	12.162	30.162	1.00 14.75
ATOM	6761	CE1	TYR K	27	105.884	10.877	31.658	1.00 14.56
MOTA	6762	CE2	TYR K	27	103.841	10.779	30.365	1.00 9.19
MOTA	6763	CZ	TYR K	27	104.807	10.160	31.110	1.00 12.16
ATOM	6764	OH	TYR K		104.698	8.823	31.326	1.00 14.74
ATOM	6765	N	ILE K		102.415	15.146	31.517	1.00 18.85
MOTA	6766	CA	ILE K		101.100	14.830	32.071	1.00 19.78
		C					31.956	1.00 20.22
ATOM	6767		ILE K		100.924	13.316		
ATOM	6768	0	ILE K		100.701	12.778	30.865	1.00 21.48
ATOM	6769	CB	ILE K		99.995	15.548	31.288	1.00 21.88
MOTA	6770	CG1			99.928	16.999	31.731	1.00 24.41
MOTA	6771	CG2			98.653	14.905	31.505	1.00 22.91
ATOM	6772	CD1	ILE K	28	99.178	17.856	30.730	1.00 29.12
ATOM	6773	N	PHE K	29	100.993	12.646	33.097	1.00 14.97
ATOM	6774	CA	PHE K		100.902	11.205	33.169	1.00 14.31
ATOM	6775	С	PHE K		99.793	10.536	32.371	1.00 20.27
ATOM	6776	ō	PHE K		100.052	9.570	31.628	1.00 27.29
ATOM	6777	СВ	PHE K		100.032	10.815	34.612	1.00 11.23
	6778	CG	PHE K		100.731	9.361	34.847	1.00 8.64
ATOM	0110	CG	riie V	. 29	100.032	5.301	J4.04/	1.00 0.04

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MOTE A	6779	CD1 I	рне к	29	101.925	•		1.00 9.74 1.00 12.03	
	6780		PHE K	29	99.859	8.700	55.5	1.00 12.03	
ATOM ATOM	6781		PHE K	29	102.061	7.278	J	1.00 14.00	
ATOM	6782		PHE K	29	99.983	7.301		1.00 10.11	
ATOM	6783		PHE K	29	101.083	6.594		1.00 20.82	
ATOM	6784		THR K	30	98.565	11.024		1.00 20.02	
ATOM	6785		THR K	30	97.364	10.479		1.00 17.45	
ATOM	6786		THR K	30	97.241	10.662	29.780	1.00 15.55	
MOTA	6787		THR K	30	96.413	10.015	32.488	1.00 15.70)
ATOM	6788		THR K	30	96.108	11.085	31.913	1.00 10.50	
ATOM	6789	OG1	THR K	30	95.884	12.388	33.982	1.00 11.75	5
ATOM	6790	CG2	THR K	30	96.251	11.172	29.866	1.00 14.9	7
MOTA	6791	N	SER K	31	98.051	11.543 11.758	28.457	1.00 14.30	
ATOM	6792	CA	SER K	31	97.920	10.835	27.596	1.00 12.1	
MOTA	6793	С	SER K	31	98.757	11.037	26.389	1.00 15.2	0
MOTA	6794	0	SER K	31	98.812	13.219	28.116	1.00 21.0	2
MOTA	6795	CB	SER K	31	98.204	14.067	29.090	1.00 30.3	
ATOM	6796	OG	SER K	31	97.605 99.370	9.804	28.179	1.00 8.8	
ATOM	6797	N	TYR K	32	100.201	8.915	27.372	1.00 7.0	4
MOTA	6798	CA	TYR K	32	100.201	7.480	27.714	1.00 7.7	
MOTA	6799	С	TYR K	32	100.019	7.115	28.886	1.00 10.3	8
MOTA	6800	0	TYR K	32	101.677	9.256	27.556	1.00 6.2	:7
MOTA	6801	СВ	TYR K	32	102.017	10.578	26.951	1.00 7.9	
MOTA	6802	CG	TYR K		102.145	10.709	25.558	1.00 7.8	
MOTA	6803	CD1			102.006	11.732	27.732	1.00 6.9	
MOTA	6804	CD2			102.221	11.940	24.972	1.00 8.0	
MOTA	6805	CE1			102.085	12.962	27.157	1.00 6.9	
MOTA	6806	CE2	TYR K	_	102.176	13.061	25.783	1.00 8.9	
MOTA	6807	CZ	TYR K		102.122	14.311	25.238	1.00 21.	
MOTA	6808		TYR K	_	99.848	6.658	26.694	1.00 5.	
MOTA	6809		TYR K		99.686	5.247	26.944	1.00 6.	
ATOM	6810 6811		TYR K		101.037	4.696		1.00 7.	30 76
MOTA	6812		TYR F		102.028	4.907		1.00 14. 1.00 10.	
MOTA	6813		TYR F		99.205			1.00 10. 1.00 11.	
MOTA MOTA	6814		TYR I		97.696	4.435			25
MOTA	6815				96.917		25.509	1.00 9. 1.00 7.	
ATOM	6816				97.049			1.00 /.	
ATOM	6817			к 33	95.566	5.531		1.00 11.	49
ATOM	6818		2 TYR	к 33	95.670			1.00 16.	21
ATOM	6819		TYR :		94.943			1.00 27.	44
ATOM	6820	о ОН			93.576	4.283			43
ATOM	682	1 N	MET		101.088				00
ATOM	682	2 CA			102.327				00
MOTA	682	3 C	MET		102.403		_		.19
MOTA	682	4 0	MET		101.514				. 89
MOTA	682				102.310				
MOTA	682				103.630 104.889				.26
MOTA	682		MET		104.88				.60
MOTA					104.99			_	. 49
MOTA			TYR		103.40			1.00 2	.00
MOTA					103.03			1.00 2	.00
MOTA			TYR		104.37			7 1.00 3	.03
ATOM	683		TYR		103.03	-		5 1.00 2	.00
MOTA					103.58	•		5 1.00 7	.10
ATOM					103.38		5 24.90	7 1.00 9	.98
ATOM			D1 TYR		102.30	-	23.54	9 1.00 4	.82
ATOM			D2 TYR		101.75			6 1.00 11	38
ATOM			E1 TYR		103.50				2.89
MOTA	ı 683	38 C	E2 TYR	V 22	200.00				

ATOM	6839	CZ	TYR F	35	•	102.	321	1.617	22.536	1.00	9.08
ATOM	6840	ОН	TYR F	35	,	101.	754	2.220	21.425	1.00	5.65
ATOM	6841	N	TRP F			104.		-1.720	27.938	1.00	2.00
ATOM	6842	CA	TRP F			105.	758	-2.491	28.745	1.00	9.19
ATOM	6843	C	TRP F	_		106.	394	-3.432	27.721	1.00	17.77
ATOM	6844	o ·	TRP F			105.		-4.093	26.913	1.00	22.05
	6845	CB	TRP H			105.		-3.297	29.852	1.00	12.14
MOTA		CG	TRP I			104.		-2.477	31.003	1.00	8.31
MOTA	6846					103.		-1.657	30.987		15.05
ATOM	6847	CD1				105.		-2.269	32.265	1.00	3.89
MOTA	6848	CD2						-0.945	32.158		14.12
MOTA	6849	NE1	TRP I			103.				1.00	5.88
MOTA	6850	CE2	TRP I			104.		-1.293	32.958		7.55
MOTA	6851	CE3				106.		-2.800	32.876	1.00	
MOTA	6852	CZ2				104.		-0.833	34.226	1.00	2.81
ATOM	6853	CZ3	TRP 1			106.		-2.349	34.135	1.00	8.51
ATOM	6854	CH2	TRP 1			105.		-1.370	34.799	1.00	4.95
MOTA	6855	N	VAL I	к з.	7	107.		-3.490	27.751		19.83
ATOM	6856	CA	VAL	к 3	7	108.	457	-4.311	26.814	1.00	15.56
MOTA	6857	С	VAL I	к з	7	109.	357	-5.259	27.542	1.00	14.72
АТОМ	6858	0	VAL :	к 3	7	109.	973	-4.870	28.520		14.86
ATOM	6859	СВ	VAL			109.	299	-3.419	25.931	1.00	15.50
ATOM	6860	CG1				109.		-4.265	24.771	1.00	16.57
ATOM	6861		VAL			108.		-2.224	25.441	1.00	7.39
ATOM	6862	N	LYS			109.		-6.509	27.091		15.99
ATOM	6863	CA	LYS			110.		-7.485	27.728		15.76
	6864	C	LYS			111.		-7.703	26.710		15.31
ATOM	6865	0	LYS			111.		-7.617	25.511		10.94
ATOM			LYS			109.		-8.804	28.036		18.60
MOTA	6866	CB						-10.078	27.500		21.34
MOTA	6867	CG	LYS			110.		-11.153	28.595		25.40
ATOM	6868	CD	LYS			109.		-12.296	28.480		27.53
MOTA	6869	CE	LYS					-12.708	29.837		28.94
ATOM	6870	NZ	LYS					-7.903	27.208		18.91
MOTA	6871	N	GLN				. 603				20.32
MOTA	6872	CA	GLN		9		. 813	-8.176	26.389		
MOTA	6873	C	GLN		9		614	-9.243	27.144		20.28
MOTA	6874	0	GГИ		9		. 236	-8.968	28.182	1.00	
MOTA	6875	CB	GLN		9		.702	-6.925	26.196	1.00	
ATOM	6876	CG	GLN		9		.125	-7.267	25.648	1.00	
MOTA	6877	CD	GLN		9		.747	-6.241	24.670	1.00	
MOTA	6878	OE1			9		.124	-5.145	25.082	1.00	2.00
MOTA	6879	NE2	GLN	к 3	9		.882	-6.624	23.377	1.00	
ATOM	6880	N	ALA	K 4	0		.621	-10.454	26.617	1.00	
ATOM	6881	CA	ALA	K 4	0		.301	-11.510	27.330	1.00	
ATOM	6882	С	ALA	K 4	0	116	.691	-11.759	26.826		35.63
ATOM	6883	0	ALA	K 4	0			-11.562	25.649		38.14
MOTA	6884	CB	ALA	K 4	0	114	. 499	-12.779	27.257	1.00	32.70
ATOM	6885	N	PRO'		1	117	.582	-12.217	27.714	1.00	41.73
MOTA	6886	CA	PRO		1	118	.966	-12.488	27.316	1.00	44.47
ATOM	6887	С	PRO		1			-13.031	25.912	1.00	44.60
ATOM	6888	ō	PRO		1			-14.107	25.633	1.00	45.90
ATOM	6889	СВ	PRO		1			-13.487	28.353	1.00	44.16
ATOM	6890	CG	PRO		1			-12.999	29.597		43.15
	6891	CD	PRO		1			-12.523	29.136		40.90
ATOM					2			-12.257	25.130		46.44
ATOM	6892	N	GLY					-12.658	23.639		55.53
MOTA	6893	CA	GLY		2			-12.522	22.912		59.52
ATOM	6894	C	GLY		2						62.08
MOTA	6895	0	GLY		2			-12.170			58.87
MOTA	6896	N	GLN		13			-12.827	23.620		
MOTA	6897	CA	GLN		13			-12.715	23.050		56.82
ATOM	6898	С	GLN	K 4	13	115	. 141	-11.219	22.745	1.00	56.18

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						10 226	23.360	1.00 56.62
ATOM	6899		ELN K	43	116.375 -		24.043	1.00 58.97
MOTA	6900		SLN K	43	114.961 -	10.00	23.426	1.00 64.99
MOTA	6901	CG G	SLN K	43			21.921	1.00 66.93
ATOM	6902	CD G	SLN K	43			21.298	1.00 68.33
ATOM	6903		GLN K	43	114.403 -	14.405	21.290	1.00 64.36
ATOM	6904		GLN K	43		12.674		1.00 50.51
ATOM	6905		GLY K	44	114.877 -			1.00 30.31
ATOM	6906	CA (GLY K	44		-9.576		1.00 34.35
ATOM	6907	c (GLY K	44		-8.713		1.00 34.33
ATOM	6908	0	GLY K	44		-8.942	23.436	1.00 33.00
ATOM	6909		LEU K	45		-7.676	21.631	1.00 27.74
ATOM	6910	CA :	LEU K	45	112.283	-6.754	22.276	1.00 20.39
ATOM	6911	C :	LEU K	45	110.868	-7.271	22.009	1.00 20.33
ATOM	6912	0	LEU K	45	110.460	-7.377	20.844	1.00 25.56
ATOM	6913	CB	LEU K	45	112.428	-5.397	21.612	1.00 23.50
MOTA	6914		LEU K	45	113.423	-4.344	22.099	1.00 25.31
MOTA	6915	CD1	LEU K	45	114.368	-4.899	23.156	1.00 16.90
ATOM	6916	CD2	LEU K	45	114.140	-3.810	20.885	1.00 10.30
MOTA	6917	N	GLU K	46	110.111	-7.529	23.083	1.00 21.71
ATOM	6918	CA	GLU K	46	108.720	-8.022	23.013	1.00 19.42
ATOM	6919	С	GLU K	46	107.775	-7.011	23.687 24.790	1.00 19.18
MOTA	6920	0	GLU K	46	108.077	-6.523	23.714	1.00 8.34
MOTA	6921	CB	GLU K	46	108.589	-9.370	22.892	1.00 13.23
MOTA	6922	CG	GLU K	46	109.172	-10.496	23.053	1.00 16.89
MOTA	6923	CD	GLU K	46			24.149	1.00 19.81
MOTA	6924	OE1		46	108.553 107.733	-12.433	22.088	1.00 14.28
MOTA	6925	OE2	GLU K	46	107.733	-6.667	23.017	1.00 16.96
MOTA	6926	N	TRP K	47	105.693	-5.740	23.606	1.00 15.82
MOTA	6927	CA	TRP K	47	103.093	-6.599	24.460	1.00 15.66
MOTA	6928	С	TRP K	47 47	104.730	-7.608	23.983	1.00 17.21
MOTA	6929	O	TRP K	47	104.892	-5.045	22.518	1.00 16.08
MOTA	6930	CB CG	TRP K	47	103.862	-4.066	23.050	1.00 21.47
ATOM	6931 6932	CD1		47	104.070	-2.745	23.415	1.00 22.03
MOTA	6933	CD2	TRP K	47	102.447	-4.286	23.162	1.00 21.00
MOTA MOTA	6934		TRP K	47	102.873	-2.147	23.730	1.00 19.17
ATOM	6935	CE2		47	101.865	-3.068	23.585	1.00 20.74
ATOM	6936				101.611	-5.389	22.939	1.00 22.89
ATOM	6937	CZ2	TRP K		100.497	-2.930	23.788	1.00 21.83 1.00 23.33
MOTA	6938				100.251	-5.245	23.142	1.00 23.33
ATOM	6939		TRP K	47	99.709	-4.025	23.560	1.00 22.30
ATOM	6940	N	ILE K		104.611	-6.245	25.730	1.00 15.18
MOTA	6941	CA	ILE K		103.731	-7.018	26.605 26.516	1.00 13.10
ATOM	6942	C	ILE K		102.291	-6.505 -7.257	26.160	1.00 16.36
MOTA	6943		ILE K		101.372	-6.962		1.00 15.43
ATOM	6944		ILE K		104.158	-7.784		1.00 13.32
MOTA	6945		ILE K		105.424 103.068	-7.569		1.00 16.88
MOTA	6946		ILE K		106.306			1.00 8.35
MOTA	6947		L ILE F		102.106			1.00 7.92
MOTA	6948		GLY F		100.790			1.00 5.54
MOTA	6949		GLY F	_	100.822			1.00 3.51
MOTA	6950		GLY I		101.883			1.00 2.95
ATOM	6953	•	GLY I		99.647			1.00 3.73
MOTA	6952		GLU I		99.542			1.00 2.05
MOTA	6953		GLU I		98.521		28.202	1.00 5.67
MOTA	6954 695		GLU I		97.762		28.551	1.00 10.18
MOTA	695				99.072			
MOTA	695				97.696		25.464	
MOTA MOTA	695				97.246		3 24.146	1.00 5.96
AION	023							

					00 000	0 005	23.790	1.00	5.26
MOTA	6959	OE1	GLU K	50	97.789	0.805	23.190	1.00	4.59
ATOM	6960	OE2	GLU K	50	96.349	-0.840		1.00	6.07
ATOM	6961	N	ILE K	51	98.549	0.355	28.774		10.53
MOTA	6962	CA	ILE K	51	97.565	0.734	29.760		15.19
ATOM	6963	С	ILE K	51	97.393	2.205	29.568		
ATOM	6964	0	ILE K	51	98.378	2.898	29.396	1.00	
ATOM	6965	CB	ILE K	51	98.079	0.518	31.198		14.59
ATOM	6966	CG1	ILE K	51	96.961	0.779	32.213		13.39
ATOM	6967	CG2	ILE K	51	99.241	1.486	31.522	1.00	9.59
ATOM	6968	CD1	ILE K	51	96.983	-0.241	33.382	-	10.69
MOTA	6969	N	ASN K	52	96.164	2.701	29.583		14.55
ATOM	6970	CA	ASN K	52	95.972	4.140	29.480		12.08
MOTA	6971	С	ASN K	52	95.978	4.454	30.971	1.00	
ATOM	6972	0	ASN' K	52	95.274	3.827	31.741	1.00	16.64
MOTA	6973	CB	ASN K	52	94.621	4.427	28.811	1.00	9.03
	6974	CG	ASN K	52	94.024	5.781	29.191	1.00	9.82
ATOM	6975		ASN K	52	94.386	6.407	30.197	1.00	5.29
ATOM	6976		ASN K	52	93.073	6.225	28.378	1.00	3.56
ATOM	6977	N N	PRO K	53	96.821	5.362	31.421	1.00	7.53
MOTA		CA	PRO K	53	96.701	5.539	32.863	1.00	12.29
MOTA	6978		PRO K	53	95.473	6.391	33.292		11.71
ATOM	6979	С		53	94.966	6.260	34.396		15.20
ATOM	6980	0	PRO K		98.058	6.130	33.256	1.00	9.48
MOTA	6981	CB	PRO K	53		6.855	32.044	1.00	13.70
MOTA	6982	CG	PRO K		98.495	6.219	30.839	1.00	11.14
MOTA	6983	CD	PRO K		97.854	7.251	32.428	1.00	10.34
MOTA	6984	N	SER K		94.978		32.793	1.00	13.52
MOTA	6985	CA	SER K		93.826	8.055	33.122		15.97
ATOM	6986	С	SER K		92.646	7.150	34.023		17.61
ATOM	6987	0	SER K		91.862	7.413			14.56
MOTA	6988	CB	SER K		93.440	8.925	31.609		13.26
MOTA	6989	OG	SER K		92.084	8.735	31.279		18.32
MOTA	6990	N	ASN K		92.553	6.091	32.331	1.00	17.54
ATOM	6991	CA	ASN K		91.508	5.066	32.347		16.90
MOTA	6992	С	ASN K		91.585	3.916	33.291		22.56
MOTA	6993	0	ASN K		90.689	3.677	34.061		25.28
MOTA	6994	CB	ASN K		91.453	4.402	30.989		
MOTA	6995	CG	ASN K		90.098	4.388	30.444		34.17 37.31
MOTA	6996		L ASN K		89.160	4.497	31.208		
MOTA	6997	ND2	2 ASN F		89.955	4.257	29.113		38.77
MOTA	6998	N	GLY F		92.655	3.151	33.161		13.82
ATOM	6999	CA	GLY F		92.826	1.946	33.946	1.00	7.70
ATOM	7000	С	GLY F		92.795	0.892	32.855	1.00	5.81
MOTA	7001	0	GLY F		93.256	-0.254	32.998	1.00	3.12
MOTA	7002	N	ASP F		92.222	1.341	31.738	1.00	7.38
MOTA	7003	CA	ASP I		92.056	0.542	30.528	1.00	4.05
MOTA	7004	С	ASP F		93.344	-0.131	30.066	1.00	7.02
ATOM	7005	0	ASP I	57	94.436		30.104	1.00	
ATOM	7006	CB	ASP I	57	91.493		29.417	1.00	2.00
MOTA	7007	CG	ASP I	ζ 57.	90.899		28.285	1.00	
MOTA	7008	OD:	1 ASP I	57	90.515		27.254	1.00	
ATOM	7009	OD:	2 ASP 1	ζ 57	90.810		28.401	1.00	
ATOM	7010	N	THR I	ζ 58	93.239	-1.368	29.630	1.00	
ATOM	7011	CA			94.434	-2.078	29.175	1.00	
ATOM	7012	С	THR		94.286	-2.821	27.879	1.00	
ATOM	7013		THR		93.184		27.435	1.00	
ATOM	7014				94.850		30.112	1.00	
MOTA	7015				94.074		29.814	1.00	
ATOM	7016				94.718		31.565	1.00	
ATOM	7017		ASN		95.415		27.315		
ATOM	7017				95.449				5.61
WI OLI	, 010	CA	1.51						

		C ASN K 59	1	96.720	-4.829	26.107	1.00 7.47
MOTA	7019			97.803	-4.295		1.00 16.58
ATOM	7020			95.417	-3.013	24.907	1.00 2.00
MOTA	7021			94.020	-2.706	24.498	1.00 7.61
MOTA	7022	CG ASN K 59		93.311	-3.599	24.031	1.00 16.59
MOTA	7023	ND2 ASN K 5		93.576	-1.466	24.711	1.00 12.46
ATOM	7024	1122		96.600	-6.149	25.994	1.00 6.30
MOTA	7025			97.782	-7.012	26.053	1.00 6.22
MOTA	7026	0,1		98.070	-7.699	24.753	1.00 9.96
ATOM	7027			97.204	-7.769	23.873	1.00 13.25
MOTA	7028			97.605	-8.099	27.111	1.00 2.00
ATOM	7029	CB PHE K 6		97.599	-7.573	28.484	1.00 2.00
MOTA	7030 7031	CD1 PHE K 6		96.575	-6.781	28.917	1.00 4.79
ATOM	7031	CP1 -1	0	98.624	-7.837	29.342	1.00 2.00
ATOM	7032		0	96.577	-6.256	30.194	1.00 9.64
ATOM	7033		0	98.629	-7.313	30.626	1.00 6.81
MOTA	7034		0	97.608	-6.524	31.050	1.00 7.19
MOTA	7035		1	99.306	-8.188	24.646	1.00 11.29
MOTA	7037		51	99.740	-8.959	23.498	1.00 9.88
MOTA	7037	U	51	99.307	-10.338	23.980	1.00 8.61
ATOM	7038	•	51	99.771	-10.834	25.021	1.00 2.00
ATOM ATOM	7040	•	51	101.276	-8.8°6	23.322	1.00 16.85
ATOM	7040		51	101.869	-10.045	22.422	1.00 19.54
ATOM	7041		51	101.153	-10.891	21.857	1.00 22.42
ATOM	7042	•	51	103.183	-10.039	22.285	1.00 12.22
ATOM	7044		52	98.407	-10.932	23.203	1.00 9.41
ATOM	7045		62	97.846	-12.238	23.526	1.00 10.37
ATOM	7046		62	98.898	-13.080	24.132	1.00 9.32
ATOM	7047		62	98.671	-13.695	25.139	1.00 10.86
ATOM	7048		62		-12.968	22.284	1.00 14.62
MOTA	7049		62	95.974	-13.517	22.382	1.00 22.92
ATOM	7050	CD GLU K	62		-12.418	22.619	1.00 34.16 1.00 41.11
ATOM	7051	OE1 GLU K	62		-12.312	23.759	
ATOM	7052	OE2 GLU K	62	94.676	-11.654	21.656	1.00 31.66 1.00 14.17
ATOM	7053	••	63		-13.115	23.482	1.00 14.17
MOTA	7054		63	101.165	-13.927	23.927	1.00 17.79
MOTA	7055		63	101.532		25.379 25.926	1.00 17.73
ATOM	7056		63	102.315	-14.477	22.984	1.00 24.30
ATOM	7057		63	102.3/1	-13.725	23.608	1.00 32.95
MOTA	7058		63	103.757	-13.885		1.00 41.27
MOTA	7059		63	104.297	-15.306		1.00 47.44
MOTA	7060		63	105.014	-15.464 -16.621		1.00 46.84
MOTA	7061		63	100.322	-12.736		1.00 18.67
MOTA	7062		64	100.920	-12.481		1.00 24.19
ATOM	7063		64	101.227	-12.281	28.312	1.00 28.98
MOTA	7064		64	100 093	-11.964		1.00 30.12
MOTA	7065		64	100.003	-11.208		1.00 23.07
MOTA	7066		64	102.000	-11.372		
MOTA	7067	CG PHE K	64	103.30	-11.385		
MOTA	7068		64	103.02	5 -11.510		
ATOM	7069	CD2 PHE K	64 64	104.31	4 -11.536		
MOTA	7070			105.11	-11.662		
ATOM	707		64 64	106 11	5 -11.679		1.00 16.55
MOTA	7072		64 65	98 80	0 -12.412		1.00 31.67
ATOM	707		65	97 54	0 - 12.17		1.00 27.05
ATOM	707		65 65	97 50	2 -12.80		1.00 22.60
ATOM	707		65	96.87	2 -12.31		1.00 13.74
MOTA	707		65	96.36	5 -12.64		1.00 25.42
ATOM	707		65	95.26	0 -11.64		
MOTA	707	8 CG LYS K	00	23.20		-	

ATOM	7079	CD	LYS K	65	94.841	-11.247	28.936	1.00 47.11
ATOM	7080	CE	LYS K	65	95.403	-9.862	29.372	1.00 53.05
MOTA	7081	ΝZ	LYS K	65	96.087	-9.813	30.714	1.00 49.62
ATOM	7082	N	SER K	66	98.219	-13.897	29.909	1.00 23.91
							31.171	1.00 27.26
ATOM	7083	CA	SER K			-14.588		
ATOM	7084	С	SER K	66	99.278	-14.070	32.151	1.00 28.10
ATOM	7085	0	SER K			-13.886	33.333	1.00 36.28
		_						
ATOM	7086	CB	SER K	66	98.500	-16.058	30.917	1.00 26.92
ATOM	7087	OG	SER K	66	99.693	-16.178	30.173	1.00 43.41
	7088		LYS K			-13.846	31.674	1.00 27.72
ATOM		И						
ATOM	7089	CA	LYS K	67	101.566	-13.409	32.559	1.00 25.39
MOTA	7090	С	LYS K	67	101.481	-12.024	33.193	1.00 22.43
						-11.825	34.331	1.00 21.73
MOTA	7091	0	LYS K					
MOTA	7092	CB	LYS K	67	102.919	-13.544	31.834	1.00 25.03
ATOM	7093	CG	LYS K	67	103,912	-14.467	32.539	1.00 24.76
						-15.911	32.237	1.00 33.66
MOTA	7094	CD	LYS K					
ATOM	7095	CE	LYS K	67	104.769	-16.655	31.588	1.00 40.47
ATOM	7096	NZ	LYS F		104 456	-17.158	30.198	1.00 49.06
ATOM	7097	N	ALA k	68		-11.070	32.489	1.00 18.81
ATOM	7098	CA	ALA k	68	100.896	-9.723	33.016	1.00 18.23
ATOM	7099	С	ALA F		99.610	-9.133	33.547	1.00 15.97
MOTA	7100	0	ALA H	68	98.530		33.218	1.00 20.36
MOTA	7101	CB	ALA F	68	101.535	-8.757	31.946	1.00 19.37
ATOM	7102	N	THR H		99.761	-8.106	34.361	1.00 13.54
ATOM	7103	CA	THR F	69	98.638	-7.418	34.941	1.00 10.79
ATOM	7104	С	THR H	69	98.963	-5.935	35.102	1.00 11.15
					99.527	-5.479	36.110	1.00 9.20
ATOM	7105	0	THR H					
ATOM	7106	CB	THR F	69	98.319	-7.998	36.272	1.00 11.95
MOTA	7107	OG1	THR F	69	98.622	-9.398	36.267	1.00 17.46
			THR I		96.876		36.558	1.00 11.77
ATOM	7108	CG2						
ATOM	7109	N	LEU I	<i>7</i> 0	98.617	-5.187	34.073	1.00 8.86
ATOM	7110	CA	LEU I	70	98.875	-3.766	34.052	1.00 10.29
					97.925		34.930	1.00 7.33
ATOM	7111	С	LEU I					
MOTA	7112	0	LEU I	70	96.776	-3.347	34.936	1.00 14.54
ATOM	7113	CB	LEU I	70	98.778	-3.282	32.610	1.00 13.48
	7114	CG	LEU I		99.722		31.662	1.00 5.91
ATOM								
ATOM	7115	CD1	LEU I	70	99.906	-3.203	30.378	1.00 6.79
ATOM	7116	CD2	LEU I	70	101.076	-4.317	32.378	1.00 2.00
					98.395		35.660	1.00 11.44
ATOM	7117	N	THR I					
ATOM	7118	CA	THR I	K 71	97.547	-1.235	36.582	1.00 11.00
MOTA	7119	С	THR I	K 71	98.272	0.095	36.837	1.00 11.43
	7120	ō	THR I		99.473		36.582	1.00 20.12
ATOM					•			
MOTA	7121	CB	THR I	K 71	97.363	-2.014	37.920	1.00 2.00
MOTA	7122	OG1	THR 1	K 71	97.847	-1.232	39.000	1.00 9.83
		CG2			98.186		37.913	1.00 10.33
ATOM	7123							
MOTA	7124	N	VAL I	K 72	97.585		37.322	1.00 7.79
MOTA	7125	CA	VAL I	K 72	98.279	2.395	37.554	1.00 9.97
			VAL		97.739		38.726	1.00 15.29
MOTA	7126							
MOTA	7127	0	VAL 1	K 72	96.603	3.002	39.116	1.00 22.03
ATOM	7128	CB	VAL	K 72	98.256	3.320	36.270	1.00 10.36
			VAL				35.02i	1.00 17.73
ATOM	7129				97.896			
ATOM	7130	CG2	VAL 1	K 72	97.294	4.464	36.427	1.00 2.00
ATOM	7131	N	ASP 1	K 73	98.558	4.055	39.308	1.00 18.61
							40.409	1.00 15.76
MOTA	7132	CA	ASP I		98.107			
ATOM	7133	,C	ASP 1	K 73	98.086	6.326	39.973	1.00 15.42
ATOM .	7134	Ō	ASP 1		98.943	7.124	40.354	1.00 15.80
							41.594	1.00 24.64
MOTA	7135	СВ	ASP :		99.033			
ATOM	7136	CG	ASP :	K 73	98.745	5.874	42.614	1.00 36.64
MOTA	7137	OD1	ASP :		97.741		42.442	1.00 42.11
							43.587	1.00 43.84
ATOM	7138	002	ASP :	к 73	99.517	5.969	40.001	2.00 43.04

ATOM	7139	И	LYS I	<	74	97.119	6.638	39.140	1.00	14.31
ATOM	7140	CA	LYS I	ζ.	74	96.940	7.976	38.632	1.00	17.40
ATOM	7141	С	LYS I	Κ.	74	97.545	9.039	39.541		18.72
ATOM	7142	0	LYS I	K	74	98.262	9.923	39.096	1.00	23.99
ATOM	7143	CB	LYS I	K	74	95.450	8.237	38.481	1.00	19.15
MOTA	7144	CG	LYS 1	ĸ	74	95.017	8.824	37.180	1.00	24.11
ATOM	7145	CD	LYS I	K	74	93.749	9.608	37.400	1.00	26.51
ATOM	7146	CE	LYS 1	K	74	92.589	8.952	36.676	1.00	29.94
ATOM	7147	NZ	LYS 1	K	74	91.849	9.913	35.781		31.49
ATOM	7148	N	SER I		75	97.226	8.974	40.820	1.00	21.46
MOTA	7149	CA	SER I	ĸ	75	97.739	9.953	41.765		25.89
ATOM	7150	С	SER :	K	75	99.256	9.969	41.817	1.00	29.16
MOTA	7151	0	SER :	K	75	99.883	11.016	41.613	1.00	31.94
ATOM	7152	CB	SER :	K	75	97.209	9.665	43.164	1.00	27.81
ATOM	7153	OG	SER :	K	75	98.283	9.431	44.073	1.00	32.23
ATOM	7154	N	ALA	K	76	99.841	8.806	42.112	1.00	27.95
ATOM	7155	CA	ALA	K	76	101.284	8.677	42.200	1.00	26.69
ATOM	7156	С	ALA	K	76	101.961	8.620	40.839	1.00	27.26
ATOM	7157	0	ALA	K	76	103.154	8.312	40.739	1.00	25.51
ATOM	7158	СВ	ALA	K	76	101.641	7.469	42.996	1.00	29.66
ATOM	7159	N	SER		77	101.199	8.932	39.795	1.00	27.89
ATOM	7160	CA	SER		77	101.739	8.956	38.444	1.00	27.65
ATOM	7161	С	SER		77	102.629	7.718	38.325	1.00	22.93
ATOM	7162	0	SER	K	7 7	103.798	7.809	37.961	1.00	26.85
ATOM	7163	СВ	SER		77	102.534	10.274	38.263	1.00	31.10
ATOM	7164	OG	SER		77	103.184	10.380	36.999	1.00	41.80
ATOM	7165	N	THR		78	102.066	6.555	38.612	1.00	13.25
ATOM	7166	CA	THR		78	102.857	5.339	38.577	1.00	13.44
ATOM	7167	c	THR		78	102.152	4.174	37.921	1.00	15.74
ATOM	7168	ō	THR		78	100.960	4.050	38.052		21.49
ATOM	7169	СВ	THR		78	103.240	4.928	39.983	1.00	8.87
ATOM	7170	OG1			78	104.095	5.943	40.524	1.00	2.97
ATOM	7171	CG2	THR		78	103.938	3.552	39.977	1.00	4.92
MOTA	7172	N	ALA		79	102.859	3.336	37.179	1.00	11.58
MOTA	7173	CA	ALA		79	102.204	2.190	36.589	1.00	7.63
ATOM	7174	С	ALA		79	102.858	0.995	37.254	1.00	12.25
ATOM	7175	Ö	ALA		79	103.926	1.116	37.880	1.00	14.11
MOTA	7176	СВ	ALA		79	102.413	2.172	35.121	1.00	7.94
ATOM	7177	N	TYR		80	102.209	-0.160	37.142	1.00	10.90
ATOM	7178	CA	TYR		80	102.706	-1.369	37.768	1.00	8.61
ATOM	7179	С	TYR		80	102.460	-2.538	36.866	1.00	10.74
ATOM	7180	0	TYR	K	80	101.462	-2.560	36.176	1.00	12.40
ATOM	7181	СВ	TYR	K	80	101.960	-1.622	39.087	1.00	9.16
ATOM	7182	CG	TYR	K	80	102.090	-0.513	40.108	1.00	7.41
ATOM	7183	CD1	TYR	K	80	102.910	-0.648	41.223	1.00	4.47
ATOM	7184		TYR		80	101.456	0.704	39.904	1.00	8.55
ATOM	7185	CE1			80	103.094	0.407	42.092	1.00	10.26
ATOM	7186	CE2			80	101.632	1.761	40.767	1.00	13.33
ATOM	7187	CZ	TYR		80.	102.448	1.607	41.858	1.00	14.02
ATOM	7188	ОН	TYR		80	102.589	2.634	42.743	1.00	20.83
ATOM	7189	N	MET		81	103.380	-3.494	36.838	1.00	15.35
MO'LA	7190	CA	MET		81	103.180	-4.700	36.043	1.00	21.06
ATOM	7191	C	MET		81	103.381	-5.846	37.025		25.14
ATOM	7192	Ō		K	81	104.292	-5.805	37.879		18.26
ATOM	7193	СВ	MET		81	104.172	-4.818	34.879		22.62
ATOM	7194	CG		ĸ	81	104.148	-6.194	34.251		21.77
ATOM	7195	SD		ĸ	81	104.987	-6.243	32.715		32.25
ATOM	7196	CE	MET		81	106.649	-6.077	33.228		25.99
ATOM	7197	N	GLU		82	102.491	-6.839	36.928		27.92
ATOM	7198	CA	GLU		82	102.548	-7.987	37.806	1.00	31.34

MOTA	7199	С	GLU K	82	102.63	6 -9.251	36.998	1.00 32.07
ATOM	7200		GLU K	82	101.68		36.334	1.00 33.59
ATOM	7201	СВ	GLU K	82	101.31	3 -8.035	38.696	1.00 37.04
ATOM	7202	CG	GLU K	82	101.50	3 -8.873	39.943	1.00 47.22
ATOM	7203	CD	GLU K	82	100.28	1 -8.868	40.847	1.00 54.78
ATOM	7203	OE1	GLU K	82	99.86		41.253	1.00 59.37
	7205	OE2	GLU K	82	99.74		41.148	1.00 58.49
ATOM	7205	N	LEU K	83	103.80		37.019	1.00 33.11
MOTA MOTA	7207	CA	LEU K	83		2 -11.096	36.302	1.00 32.79
	7208	C	LEU K	83		0 -12.164	37.341	1.00 31.69
ATOM ATOM	7209	0	LEU K	83		6 -12.068	38.489	1.00 28.90
MOTA	7210	СВ	LEU K	83		1 -11.167	35.734	1.00 33.42
ATOM	7211	CG	LEU K	83	105.79		34.960	1.00 33.26
	7212	CD1	LEU K	83	107.29	-	34.935	1.00 35.24
MOTA	7213	CD2	LEU K	83	105.21		33.559	1.00 30.40
MOTA	7213	N	SER K	84		2 -13.180	36.946	1.00 32.75
ATOM	7214	CA	SER K	84		7 -14.218	37.892	1.00 36.07
ATOM	7215	CA	SER K	84		4 -15.566	37.345	1.00 35.79
MOTA	7217	0	SER K	84		4 -15.729	36.135	1.00 35.35
ATOM			SER K	84		1 -14.168	38.234	1.00 42.69
MOTA	7218	CB OG	SER K	84	100.48		37.161	1.00 55.72
ATOM	7219	N	SER K	85	103.08		38.246	1.00 36.47
MOTA	7220		SER K	85	103.39		37.863	1.00 37.84
MOTA	7221	CA C	SER K	85		2 -17.844	36.911	1.00 35.27
ATOM	7222 7223	0	SER K	85		2 -18.180	35.719	1.00 33.11
MOTA			SER K	85		3 -18.557	37.200	1.00 43.33
MOTA	7224 7225	CB	SER K	85		5 -17.654	36.330	1.00 49.12
ATOM		OG	LEU K	86		6 -17.393	37.467	1.00 32.43
MOTA	7226	N CA	LEU K	86		6 -17.270	36.700	1.00 31.15
MOTA	7227 7228	CA	LEU K	86		35 -18.596	36.408	1.00 31.82
MOTA	7229	0	LEU K	86		20 -19.360	37.316	1.00 24.90
MOTA MOTA	7230	СВ	LEU K	86		35 -16.315	37.427	1.00 29.45
ATOM	7231	CG	LEU K	86		58 -14.894	37.427	1.00 27.89
ATOM	7232	CD1		86		59 -14.135	38.635	1.00 26.95
ATOM	7232	CD2		86		37 -14.167	36.121	1.00 25.82
ATOM	7234	N	ARG K	87		65 -18.859	35.115	1.00 35.99
ATOM	7235	CA	ARG K	87	108.4		34.662	1.00 39.80
ATOM	7236	C	ARG K	87		11 -19.474	34.589	1.00 40.31
ATOM	7237	Ö	ARG K			31 -18.282	34.869	1.00 36.65
ATOM	7238	СВ	ARG K			79 -20.475	33.247	1.00 42.86
ATOM	7239	CG	ARG K			09 -20.642	33.002	1.00 51.57
ATOM	7240	CD	ARG K		106.1	82 -19.951	31.710	1.00 56.81
ATOM	7241	NE	ARG K			42 -20.704	30.508	1.00 63.01
ATOM	7242	CZ	ARG K		106.0	37 -21.891	30.166	1.00 66.48
ATOM	7243		ARG K		105.1	40 -22.501	30.933	1.00 68.70
ATOM	7244		ARG K		106.4	15 -22.461	29.030	1.00 68.68
ATOM	7245	N	SER K		110.8	65 -20.311	34.177	1.00 42.24
ATOM	7246		SER K		112.2	49 -19.859	34.062	1.00 42.14
MOTA	7247	C	SER K		112.4	44 -18.965	32.831	1.00 40.59
ATOM	7248		SER K		113.2	28 -18.007	32.879	1.00 41.69
ATOM	7249		SER K		113.2	01 -21.037	33.975	1.00 39.61
ATOM	7250		SER K		113.7	79 -21.062	32.695	1.00 41.97
ATOM	7251		GLU K			32 -19.251		1.00 32.97
ATOM	7252		GLU K			78 -18.434		1.00 35.12
ATOM	7253		GLU K		111.2	90 -17.038	30.730	1.00 36.04
ATOM	7254		GLU K		111.2	35 -16.246	29.788	1.00 41.24
ATOM	7255		GLU K		111.2	48 -19.126	29.379	
ATOM	7256		GLU K		111.4	34 -20.603		1.00 45.02
ATOM	7257		GLU K		110.4	49 -21.233	30.378	1.00 45.52
ATOM	7258		1 GLU K		110.8	00 -22.206	31.078	1.00 46.38

ATOM	7259	OE2	GLU K	89	109.307	20.743	30.411	1.00 50.55	
MOTA	7260	N	ASP K	90	110.856	-16.724	31.936	1.00 35.15	
ATOM	7261	CA	ASP K	90	110.295	-15.412	32.194	1.00 34.80	
ATOM	7262		ASP K	90	111.385	-14.399	32.537	1.00 34.49	
	7263	0	ASP K	90	111.140		32.613	1.00 32.27	
ATOM				90	109.295		33.334	1.00 36.85	
MOTA	7264	CB	ASP K				32.864	1.00 37.22	
MOTA	7265	CG	ASP K	90		-15.946			
MOTA	7266		ASP K	90		-16.061	31.628	1.00 34.58	
MOTA	7267	OD2	ASP K	90		-16.164	33.766	1.00 39.71	
ATOM	7268	N	THR K	91		-14.915	32.742	1.00 35.00	
MOTA	7269	CA	THR K	91	113:739	-14.065	33.078	1.00 32.04	
ATOM	7270	С	THR K	91	114.075	-13.108	31.933	1.00 27.10	
ATOM	7271	0	THR K	91	114.099	-13.504	30.771	1.00 26.37	
ATOM	7272	СВ	THR K	91	114.996	-14.884	33.407	1.00 31.72	
ATOM	7273	OG1	THR K		114.675	-15.956	34.295	1.00 28.97	
		CG2	THR K			-14.000	34.092	1.00 36.99	
ATOM	7274					-11.845	32.268	1.00 20.60	
ATOM	7275	N	ALA K					1.00 20.21	
MOTA	7276	CA	ALA K		114.624	-10.834	31.262		
MOTA	7277	С	ALA K		114.598	-9.427	31.871	1.00 20.73	
ATOM	7278	0	ALA K		114.651	-9.251	33.099	1.00 20.62	
ATOM	7279	CB	ALA K	92	113.614	-10.921	30.102	1.00 15.41	
MOTA	7280	N	VAL K	93	114.608	-8.415	31.014	1.00 18.39	
ATOM	7281	CA	VAL K	93	114.520	-7.075	31.550	1.00 18.82	
ATOM	7282	С	VAL K	93	113.236	-6.527	31.016	1.00 21.61	
ATOM	7283	ō	VAL K		112.924	-6.651	29.808	1.00 19.83	
ATOM	7284	CB	VAL K		115.693	-6.175	31.147	1.00 17.11	
	7285	CG1	VAL K		115.506	-4.761	31.695	1.00 7.99	
MOTA		CG2	VAL K		116.951	-6.755	31.681	1.00 11.43	
MOTA	7286				112.496		31.965	1.00 18.63	
MOTA	7287	N	TYR K					1.00 16.82	
ATOM	7288	CA	TYR K		111.207	-5.398	31.719		
ATOM	7289	С	TYR K		111.329	-3.900	31.711	1.00 13.76	
ATOM	7290	0	TYR K		111.794	-3.299	32.658	1.00 14.68	
ATOM	7291	CB	TYR K	94	110.233		32.776	1.00 15.13	
ATOM	7292	CG	TYR K	94	109.989		32.600	1.00 12.05	
MOTA	7293	CD1	TYR K	94	110.800		33.239	1.00 13.15	
ATOM	7294	CD2	TYR K	94	108.997		31.726	1.00 10.28	İ
MOTA	7295	CE1	TYR K	94	110.626	-9.730	33.000	1.00 12.10)
ATOM	7296	CE2	TYR K	94	108.812	-9.219	31.475	1.00 7.51	
ATOM	7297	CZ	TYR K		109.625	-10.144	32.107	1.00 12.20)
ATOM	7298	ОН	TYR K		109.452		31.797	1.00 13.56	
ATOM	7299	N	TYR K		110.943		30.594	1.00 13.03	3
ATOM	7300	CA	TYR K		111.013		30.400	1.00 14.67	
	7300	C	TYR K		109.607		30.447	1.00 15.45	
MOTA					108.623		30.002	1.00 16.10	
ATOM	7302	0	TYR K				29.017	1.00 15.97	
ATOM	7303	CB	TYR K		111.639				
MOTA	7304	CG	TYR K		113.138		28.920	1.00 15.65	
MOTA	7305	CD1			113.976		29.764	1.00 17.41	
MOTA	7306	CD2	TYR K		113.711		28.005	1.00 17.07	
MOTA	7307	CE1	TYR F	95	115.337		29.710	1.00 24.68	
ATOM	7308	CE2	TYR F	95	115.076	-2.821	27.938	1.00 18.23	
MOTA	7309	CZ	TYR F	95	115.887	-2.115	28.795	1.00 24.39	}
ATOM	7310	ОН	TYR F		117.252		28.767	1.00 29.30)
ATOM	7311	N	CYS F		109.492		31.009	1.00 12.82	
ATOM	7312	CA	CYS F		108.204		30.978	1.00 14.29	
ATOM	7312	C	CYS F		108.521		30.035	1.00 11.03	
	7314	0	CYS F		109.575		30.133	1.00 12.33	
ATOM							32.369	1.00 15.41	
ATOM	7315	CB	CYS I		107.788			1.00 13.41	
ATOM	7316	SG	CYS I		108.502		32.833		
MOTA	7317	N	THR F		107.651		29.096	1.00 6.89	
MOTA	7318	CA	THR F	₹ 97	107.961	3.112	28.211	1.00 6.98	J

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ATOM	7319	С	THR	K	97	106.695	3.865	27.793	1.00	7.90
ATOM	7320	0	THR	K	97	105.624	3.298	27.650	1.00	9.84
ATOM	7321	CB	THR	K	97	108.759	2.640	26.960	1.00	2.00
ATOM	7322	OGl	THR	K	97	108.593	3.586	25.893	1.00	2.25
MOTA	7323	CG2	THR	K	97	108.263	1.288	26.490	1.00	2.00
MOTA	7324	N	ARG	K	98	106.847	5.156	27.596	1.00	4.34
ATOM	7325	CA	ARG	K	98	105.769	6.034	27.224	1.00	5.17
MOTA	7326	С	ARG	K	98	105.550	5.964	25.724	1.00	5.49
MOTA	7327	0	ARG	K	98	106.469	6.218	24.968		11.98
MOTA	7328	CB	ARG		98	106.210	7.430	27.617	1.00	7.88
MOTA	7329	CG	ARG		98	105.133	8.419	27.834	1.00	9.37
MOTA	7330	CD	ARG		98	105.214	9.464	26.816	1.00	7.99
MOTA	7331	ΝE	ARG		98	105.681	10.723	27.362	1.00	4.40
ATOM	7332	CZ	ARG		98	106.233	11.669	26.607		11.44
MOTA	7333	NH1			98	106.376	11.482	25.300	1.00	6.35
ATOM	7334	NH2			98	106.623	12.818	27.139		22.81
MOTA	7335	N	SER		99	104.348	5.631	25.283	1.00	3.32
MOTA	7336	CA	SER		99	104.073	5.591	23.855	1.00	7.71
MOTA	7337	C	SER		99	103.669	7.011	23.512	1.00	8.13
MOTA	7338	0	SER		99	103.197	7.749	24.369	1.00	12.01
MOTA	7339	CB	SER		99	102.927	4.625	23.528		21.31
MOTA	7340	OG	SER		99	101.692 103.902	5.325	23.386	1.00	8.82
ATOM	7341	И			100	103.902	7.415 8.749	21.869	1.00	14.01
MOTA	7342	CA	ASP		100	103.342	8.538	20.846	1.00	17.40
MOTA	7343	C.	ASP		100	102.437	8.340	19.669	1.00	
MOTA	7344 7345	O CB	ASP		100 100	102.746	9.426	21.269		18.76
MOTA	7345	CG	ASP		100	104.783	10.729	20.569		20.34
MOTA ATOM	7347	OD1			100	105.130	10.995	19.524		22.57
ATOM	7348	OD2			100	103.642	11.489	21.073		24.15
ATOM	7349	N			101	101.207	8.567	21.318		22.65
ATOM	7350	CA			101	100.054	8.395	20.450		16.86
ATOM	7351	C	GLY		101	99.970	6.934	20.151	1.00	13.56
ATOM	7352	ō			101	99.420	6.522	19.144	1.00	11.90
ATOM	7353	N			102	100.536	6.141	21.044	1.00	12.17
ATOM	7354	CA	ARG	K	102	100.512	4.710	20.859	1.00	11.15
ATOM	7355	С	ARG	K	102	101.102	4.263	19.537	1.00	13.05
ATOM	7356	0	ARG	K	102	100.559	3.382	18.875		10.84
ATOM	7357	CB	ARG	K	102	99.079	4.225	20.972		10.57
ATOM	7358	CG	ARG	K	102	98.568	4.222	22.385	1.00	2.00
MOTA	7359	CD			102	97.168	3.937	22.339	1.00	5.20
MOTA	7360	NE	ARG			96.893	2.530	22.331	1.00	2.00
MOTA	7361	CZ			102	96.403	1.932	21.280	1.00	2.00
MOTA	7362	NH1			102	96.160	2.662	20.203	1.00	2.00
ATOM	7363		ARG			96.097	0.642	21.340	1.00	2.00
ATOM	7364	И			103	102.214	4.892	19.162		18.78
ATOM	7365	CA			103	102.941	4.560	17.936		13.36
ATOM	7366	С			103	104.434	4.507	18.262		12.92
ATOM	7367	0			103	104.921	3.436	18.600	1.00	
ATOM	7368	CB			103	102.684	5.590	16.869		12.23
ATOM	7369	CG			103	101.372	5.426	16.250	1.00	8.71 18.70
MOTA	7370		ASN			100.473	6.173	16.553	1.00	5.41
ATOM	7371		? ASN			101.238	4.452	15.364 18.170	1.00	5.67
MOTA	7372	N			104	105.165	5.621	18.170	1.00	5.19
ATOM	7373	CA			104	106.570	5.575 5.445	20.011	1.00	
ATOM	7374	С			104	106.615	6.028	20.671	1.00	
ATOM ATOM	7375 7376	O CB			104	105.783	6.840	18.079	1.00	2.00
ATOM	7377	CB CG			104	107.287 106.576	8.124	18.489	1.00	9.26
ATOM	7378		ASI L ASI		104	106.376	8.824	19.394	1.00	8.46
VIOL	1310	UD.	. W21	. 1	T 04	101.140	0.024	25.554		

ATOM	7379	OD2	ASP K 104	105.507	8.454	17.885	1.00	
ATOM	7380	N	MET K 105	107.515	4.628	20.561	1.00	
ATOM	7381		MET K 105	107.618	4.489	22.026		10.62
MOTA	7382		MET K 105	108.763	5.396	22.364	1.00	8.65
MOTA	7383		MET K 105	109.872	4.919	22.383		13.38
ATOM	7384		MET K 105	107.979	3.046	22.425	1.00	2.00
MOTA	7385		MET K 105	107.622	2.071	21.325	1.00	7.98
MOTA	7386		MET K 105	107.394	0.251	21.736	1.00	8.92 11.64
MOTA	7387		MET K 105	108.288	0.164	23.206	1.00	8.37
ATOM	7388		ASP K 106	108.495	6.659	22.696 22.938	1.00	9.89
MOTA	7389	CA	ASP K 106	109.553	7.659 7.863	24.269	1.00	7.86
MOTA	7390	С	ASP K 106	110.323	8.781	24.209	1.00	6.57
MOTA	7391	0	ASP K 106	111.142	9.043	22.477	1.00	6.86
MOTA	7392	CB	ASP K 106	109.047 108.072	9.687	23.465	1.00	6.97
ATOM	7393	CG	ASP K 106	103.072	9.205	24.618	1.00	2.00
ATOM	7394		ASP K 106	107.484	10.710	23.068	1.00	8.92
MOTA	7395		ASP K 106 SER K 107	110.067	7.093	25.341	1.00	6.32
ATOM	7396 7397	N CA	SER K 107	110.846	7.234	26.611	1.00	8.16
ATOM	7398		SER K 107	110.838	5.951	27.376	1.00	6.48
ATOM	7399	0	SER K 107	109.801	5.320	27.457		14.70
ATOM ATOM	7400	CB	SER K 107	110.310	8.327	27.499	1.00	4.54
ATOM	7401	OG	SER K 107	110.120	9.485	26.714	1.00	20.91
ATOM	7402	N	TRP K 108	111.984	5.529	27.904	1.00	4.03
ATOM	7403	CA	TRP K 108	112.029	4.247	28.612	1.00	3.18
ATOM	7404	C	TRP K 108	112.606	4.320	30.017	1.00	5.42
ATOM	7405	o	TRP K 108	113.454	5.156	30.317	1.00	11.40
ATOM	7406	CB	TRP K 108	112.834	3.211	27.812	1.00	2.00
ATOM	7407	CG	TRP K 108	112.421	2.995	26.383	1.00	2.00
MOTA	7408	CD1	TRP K 108	112.203	3.940	25.452	1.00	2.53
MOTA	7409	CD2	TRP K 108	112.138	1.752	25.766	1.00	2.00
ATOM	7410		TRP K 108	111.783	3.371	24.283	1.00	2.00
MOTA	7411	CE2		111.741	2.017	24.453	1.00	2.00
MOTA	7412	CE3		112.179	0.436	26.201	1.00	2.00
MOTA	7413		TRP K 108	111.384	1.023	23.565	1.00	2.56
ATOM	7414		TRP K 108	111.827	-0.546 -0.262	25.347 24.033	1.00	5.00
ATOM	7415	CH2		111.431	3.467	30.900	1.00	6.53
ATOM	7416	N	GLY K 109 GLY K 109	112.104 112.625	3.429	32.256	1.00	4.20
ATOM ATOM	7417 7418	CA C	GLY K 109	113.919	2.675	32.151	1.00	4.10
ATOM	7419	0	GLY K 109	114.179	2.118	31.073	1.00	7.42
ATOM	7420	N	GLN K 110	114.707	2.638	33.228	1.00	2.74
ATOM	7421	CA	GLN K 110	116.010	1.946	33.226	1.00	7.21
ATOM	7422	C	GLN K 110	115.914	0.550	32.739	1.00	10.54
ATOM	7423	0	GLN K 110	116.764	0.075	31.963	1.00	16.25
ATOM	7424	СВ	GLN K 110	116.593	1.846	34.584	1.00	2.00
MOTA	7425	CG	GLN K 110	116.293	3.018	35.354		12.97
ATOM	7426	CD	GLN K 110	115.292	2.688	36.351		16.84
MOTA	7427	OE1	GLN K 110	115.431	1.674	37.042		22.74
MOTA	7428	NE2	GLN K 110	114.242	3.512	36.445	1.00	
MOTA	7429	N	GLY K 111	114.850	-0.083	33.195	1.00	8.22
MOTA	7430	CA	GLY K 111	114.558	-1.450	32.860	1.00	9.17
ATOM	7431	С	GLY K 111	114.586	-2.201	34.156	1.00	8.25 10.00
ATOM	7432	0	GLY K 111	115.167	-1.696	35.114	1.00	
ATOM	7433	N	THR K 112	113.954	-3.371	34.214 35.446		12.87
ATOM	7434	CA	THR K 112	113.993	-4.130 -5.549	35.446		12.24
ATOM	7435	C	THR K 112	114.372	-6.200	34.246		11.14
MOTA	7436	O CB	THR K 112	113.798 112.654	-4.107	36.247		15.49
ATOM	7437	CB	THR K 112	112.834	-2.762	36.662		19.09
MOTA	7438	OG1	THR K 112	112.330	2.102	50.002		

ATOM	7439	CG2	THR	K	112	112.80	8	-4.970	37.495	1.00	8.45
ATOM	7440	N	LEU	ĸ	113	115.38	3	-6.005	35.859	1.00	8.88
						115.86			35.644		
ATOM	7441	CA	LEU				_	-7.328			13.94
ATOM	7442	С	LEU	K	113	115.05	5	-8.258	36.497	1.00	15.64
ATOM	7443	0	LEU	K	113	115.17	5	-8.244	37.705	1.00	18.39
MOTA	7444	СВ	LEU			117.37		-7.427	35.983		13.76
ATOM											
	7445	CG	LEU			118.25		-8.504	35.292		12.59
ATOM	7446	CDl	LEU	K	113	118.34	4	-9.738	36.135	1.00	15.85
ATOM	7447	CD2	LEU	K	113	117.64	8	-8.914	33.958	1.00	21.89
ATOM	7448	N	VAL	ĸ	114	114.19	3	-9.043	35.879		15.63
ATOM	7449	CA				113.45					
			VAL					-9.998	36.662		20.45
ATOM	7450	С	VAL	K	114	114.11		-11.341	36.333	1.00	22.59
ATOM	7451	0	VAL	K	114	114.06	2	-11.816	35.184	1.00	26.74
ATOM	7452	СВ	VAL	ĸ	114	111.93		-9.998	36.286	1 00	22.56
ATOM	7453		VAL					-11.382	36.537		27.91
ATOM	7454		VAL			111.19		-9.003	37.138		16.56
ATOM	7455	N	THR	K	115	114.75	8	-11.949	37.323	1.00	19.42
ATOM	7456	CA.	THR	K	115	115,42	0	-13.232	37.096	1.00	20.84
ATOM	7457	С	THR					-14.257	37.968		21.22
ATOM	7458	0	THR					-14.145	39.202		19.36
ATOM	7459	CB	THR	K	115	116.95	4	-13.139	37.438	1.00	23.91
ATOM	7460	OG1	THR	K	115	117.42	0	-14.361	38.047	1.00	19.73
ATOM	7461	CG2	THR	ĸ	115			-11.947	38.385		20.22
ATOM	7462		VAL								
		N						-15.257	37.333		20.53
ATOM	7463	CA	VAL			113.45	4	-16.274	38.094	1.00	21.39
MOTA	7464	С	VAL	K	116	114.13	4	-17.634	38.060	1.00	24.16
ATOM	7465	0	VAL	K	116	114.17	7	-18.300	37.031	1.00	25.25
ATOM	7466	СВ	VAL					-16.375	37.621		22.81
ATOM	7467										
			VAL					-14.969	37.476		18.75
ATOM	7468	CG2	VAL	K	116	111.87	0	-17.109	36.290	1.00	16.61
MOTA	7469	N	SER	K	117	114.67	8	-18.045	39.199	1.00	29.77
ATOM	7470	CA	SER	ĸ	117			-19.342	39.301		35.29
ATOM	7471	C	SER					-19.981	40.680		
											38.18
ATOM	7472	0	SER					-19.302	41.680		37.72
ATOM	7473	CB	SER	K	117	116.84	7	-19.203	39.014	1.00	39.64
ATOM	7474	OG	SER	K	117	117.62	8	-19.451	40.181	1.00	40.49
ATOM	7475	N	SER	K	118			-21.296	40.720		40.60
ATOM	7476	CA	SER					-22.067	41.951		
											43.48
ATOM	7477	С	SER					-21.962	42.786	1.00	45.80
ATOM	7478	0	SER			116.48	0	-22.141	44.010	1.00	46.14
ATOM	7479	CB	SĖR	K	118	114.95	9	-23.517	41.593	1.00	44.06
MOTA	7480	OG	SER	ĸ	118			-23.681	40.188		51.11
ATOM	7481	N	ALA			117.62		-21.702			48.40
									42.109		
ATOM	7482	CA	ALA					-21.539	42.757	1.00	47.53
ATOM	7483	С	ALA	K	119	118.81	0	-20.540	43.895	1.00	46.05
ATOM	7484	0	ALA	K	119	117.85	6	-19.788	43.981	1.00	47.02
ATOM	7485	CB	ALA					-21.054	41.753		48.83
ATOM	7486	N	SER								
								-20.520	44.770		45.27
MOTA	7487	CA	SER			119.72	5	-19.604	45.884	1.00	44.58
ATOM	7488	С	SER	K	120	121.09	7	-19.037	46.074	1.00	41.66
ATOM	7489	0	SER					-19.774	46.028		42.35
ATOM	7490	СВ	SER					-20.371	47.126		50.85
MOTA	7491	OG	SER					-21.264	46.810		60.33
ATOM	7492	N	THR	K	121	121.15	9	-17.740	46.337		40.31
ATOM	7493	CA	THR	ĸ	121	122.41	0	-17.014	46.536	1.00	38.40
ATOM	7494	С	THR					-17.927	46.948		40.53
ATOM	7495	Ö	THR								
								-18.837	47.748		47.01
ATOM	7496	CB	THR					-15.948	47.601		37.31
MOTA	7497	OG1	THR	K	121	121.64	2	-14.809	47.006		37.79
ATOM	7498	CG2	THR	K	121	123.57	5	-15.540	48.185	1.00	33.10

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MOTA	7499	N	LYS K	122	124.701 -17.6	56 46.430	1.00 40.09
ATOM	7500	CA	LYS K		125.837 -18.4		1.00 40.65
ATOM	7501	C	LYS K		127.055 -17.7		1.00 39.94
	7502		LYS K		126.971 -17.3		1.00 39.45
ATOM		0.	LYS K				1.00 39.07
MOTA	7503	CB			125.614 -19.8		
MOTA	7504	CG	LYS K		126.708 -20.3		1.00 41.95
ATOM	7505	CD	LYS K		127.099 -21.7		1.00 50.37
ATOM	7506	CE	LYS K		128.243 -21.8		1.00 56.38
ATOM	7507	NZ	LYS K	122	129.556 -21.2	298 46.116	1.00 55.08
ATOM	7508	N	GLY K	123	128.180 -17.8	366 46.854	1.00 42.53
ATOM	7509	CA	GLY K	123	129.358 -17.2	237 46.294	1.00 41.98
ATOM	7510	С	GLY K		129.934 -18.1	101 45.178	1.00 42.30
ATOM	7511	Ō	GLY K		129.509 -19.2		1.00 39.46
ATOM	7512	N	PRO K		130.901 -17.5		1.00 42.14
	7513	CA	PRO K		131.475 -18.3		1.00 45.89
ATOM							1.00 47.96
ATOM	7514	С	PRO K		132.646 -19.2		
ATOM	7515	0	PRO K		133.003 -19.3		1.00 48.52
ATOM	7516	СВ	PRO K		131.953 -17.3		1.00 42.43
ATOM	7517	CG	PRO K		132.413 -16.2		1.00 38.43
MOTA	7518	CD	PRO K	124	131.494 -16.2	227 44.457	1.00 39.92
MOTA	7519	N	SER K	125	133.229 -19.9	990 42.895	1.00 45.20
ATOM	7520	CA	SER K	125	134.375 -20.8	321 43.167	1.00 42.42
ATOM	7521	С	SER K	125	135.334 -20.3	196 42.184	1.00 40.46
ATOM	7522	0	SER K		134.909 -19.		1.00 41.20
ATOM	7523	СВ	SER K		134.092 -22.2		1.00 44.93
ATOM	7524	OG	SER K		133.386 -22.9		1.00 49.50
ATOM	7525	N	VAL K		136.612 -20.1		1.00 37.57
	7526	CA	VAL K		137.616 -19.5		1.00 30.66
ATOM							
ATOM	7527	C	VAL K		138.694 -20.0		1.00 29.48
ATOM	7528	0	VAL K		139.070 -21.3		1.00 28.72
ATOM	7529	CB	VAL K		138.225 -18.3		1.00 30.40
ATOM	7530	CG1			137.184 -17.3		1.00 28.31
MOTA	7531	CG2	VAL K	126	138.747 -18.8		1.00 36.94
MOTA	7532	N	PHE K	127	139.194 -20.		1.00 27.90
MOTA	7533	CA	PHE K	127	140.208 -21.	624 39.864	1.00 29.52
ATOM	7534	С	PHE K	127	141.257 -21.0	016 38.983	1.00 33.53
ATOM	7535	0	PHE K	127	140.946 -20.3	396 37.968	1.00 40.59
MOTA	7536	СВ	PHE K		139.538 -22.		1.00 26.84
ATOM	7537	CG	PHE K		138.526 -23.		1.00 26.52
ATOM	7538	CD1			138.923 -24.		1.00 24.93
ATOM	7539	CD2			137.176 -23.2		1.00 29.06
ATOM	7540	CE1	PHE K		137.997 -24.		1.00 29.67
ATOM	7541		PHE K		136.225 -23.		1.00 28.02
					136.634 -24.		
ATOM	7542	CZ					
ATOM	7543	N	PRO K		142.526 -21.		1.00 32.43
ATOM	7544	CA	PRO K		143.487 -20.		
MOTA	7545	С	PRO K		143.405 -21.		
ATOM	7546	0	PRO K		143.069 -22.		
ATOM	7547	CB	PRO K		144.825 -20.		
MOTA	7548	CG	PRO K	128	144.595 -22.		
ATOM	7549	CD	PRO K	128	143.182 -22.	002 40.380	1.00 32.05
ATOM	7550	N	LEU K	129	143.630 -20.		1.00 33.82
ATOM	7551	CA	LEU K		143.698 -20.		1.00 33.90
ATOM	7552	С	LEU K		145.148 -20.		
ATOM	7553	Ö	LEU K		145.445 -19.		
ATOM	7554	СВ	LEU K		142.820 -20.		
ATOM	7555	CG	LEU K		141.388 -19.		
	7556	CD1					
MOTA			LEU K		140.851 -18.		
ATOM	7557				140.610 -21.		
MOTA	7558	N	ALA K	T30	146.039 -21.	253 35.074	1.00 38.72

MOTA	7559	CA	ALA K	130	147.463 -20.965	35.076	1.00	38.26
MOTA	7560	С	ALA K	130	148.240 -21.104	33.761	1.00	39.11
MOTA	7561	0	ALA K	130	147.976 -21.987	32.916	1.00	36.46
MOTA	7562	CB	ALA K	130	148.140 -21.773	36.182		33.59
MOTA	7563	N	PRO K	131	149.196 -20.182	33.561		38.75
MOTA	7564	CA	PRO K	131	150.019 -20.198	32.360		37.95
MOTA	7565	С	PRO K		150.775 -21.527	32.281		38.12
MOTA	7566	0	PRO K		151.082 -22.169 ⁻	33.295		35.68
ATOM	7567	CB	PRO K		150.966 -19.002	32.553		39.36
MOTA	7568	CG	PRO K		150.919 -18.684	34.052		38.29
ATOM	7569	CD	PRO K		149.527 -19.050	34.451		39.08
ATOM	7570	N	SER K		151.091 -21.916	31.060	•	39.42
ATOM	7571	CA	SER K		151.809 -23.146	30.800		40.30
ATOM	7572	С	SER K		152.170 -23.058	29.327		43.14
ATOM	7573	0	SER K		151.647 -22.211	28.594		42.20
MOTA	7574	CB	SER K		150.910 -24.365	31.037		37.00
ATOM	7575	OG	SER K		150.124 -24.633	29.887		35.06
ATOM	7576	N	SER K		153.077 -23.921	28.900		45.12
ATOM	7577	CA	SER K		153.484 -23.947	27.515		47.30
ATOM	7578	С	SER K		152.218 -23.982	26.676		48.08
ATOM	7579	0	SER K		152.148 -23.359	25.609		49.41
ATOM	7580	CB	SER K		154.309 -25.190	27.261		49.74
ATOM	7581	OG	SER K		154.101 -26.113	28.316		57.59
ATOM	7582	N	LYS K		151.207 -24.680	27.197		47.20 48.46
MOTA	7583	CA	LYS K		149.913 -24.836	26.522	1.00	47.17
ATOM ATOM	758 <u>4</u> 7585	С	LYS K		149.084 -23.541 148.034 -23.513	26.431 25.774		44.45
ATOM	7586	O CB	LYS K		149.096 -25.938	27.209		48.47
ATOM	7587	CG	LYS K		149.950 -26.893	28.024		57.07
ATOM	7588	CD	LYS K		149.317 -27.218	29.382		61.00
ATOM	7589	CE	LYS K		150.346 -27.688	30.436		61.12
ATOM	7590	NZ	LYS K		151.771 -27.277	30.188		64.25
ATOM	7591	N	SER K		149.587 -22.473	27.053		45.49
ATOM	7:592	CA	SER K		148.927 -21.170	27.069		43.24
ATOM	7593	C	SER K		149.942 -20.029	26.874		42.56
ATOM	7594	0	SER K		149.791 -18.915	27.418		37.61
ATOM	7595	СВ	SER K		148.185 -21.002	28.395		44.40
ATOM	7596	OG	SER K		149.040 -20.515	29.417		42.53
ATOM	7597	N	THR K	136	150.969 -20.314	26.071		42.79
ATOM	7598	CA	THR K	136	152.013 -19.330	25.804	1.00	42.66
ATOM	7599	С	THR K	136	152.364 -19.160	24.334	1.00	41.86
MOTA	7600	0	THR K	136	153.386 -19.652	23.859	1.00	41.14
MOTA	7601	CB	THR K		153.297 -19.660	26.565		40.54
ATOM	7602	OG1	THR K		153.026 -19.678	27.972		
MOTA	7603	CG2	THR K		154.354 -18.602	26.281		41.50
ATOM	7604	N	SER K		151.496 -18.462	23.616		42.20
ATOM	7605	CA	SER K		151.718 -18.207	22.205		42.27
ATOM	7606	С	SER K		152.805 -17.153	22.144		41.45
MOTA	7607	0	SER K		152.740 -16.179	22.888		40.77
MOTA	7608	CB	SER K		150.413 -17.711	21.526		41.79
ATOM	7609	OG	SER K		149.460 -18.775	21.386		41.18
MOTA	7610	N	GLY K		153.801 -17.376	21.278		44.61
ATOM	7611	CA	GLY K		154.920 -16.448	21.099		43.47
ATOM	7612	С	GLY K		155.485 -15.940	22.409		42.75
ATOM	7613 7614	N O	GLY K		155.486 -16.650 155.938 -14.700	23.420 22.434		44.33
ATOM	7615	CA						43.36
MOTA MOTA	7616	CA	GLY K		156.495 -14.213 155.489 -13.958	23.684 24.805		43.73
ATOM	7617	0	GLY K		155.872 -13.637	25.939		45.73
ATOM	7618	N	THR K		154.201 -14.100	24.501		40.76
AT OF	,010	••	TIIV V	110	TO4.201 -14.100	24.701	1.00	30.70

ATOM	7619	C.A.	THR K 140	153.160 -13.829	25.481	1.00 34.44
ATOM	7620	С	THR K 140	152.492 -15.047	26.098	1.00 31.94
ATOM	7621	0	THR K 140	152.283 -16.067	25.438	1.00 27.93
ATOM	7622	CB	THR K 140	152.064 -12.975	24.866	1.00 36.29
MOTA	7623	OG1	THR K 140	150.842 -13.711	24.930	1.00 37.97
MOTA	7624	CG2	THR K 140	152.381 -12.635	23.380	1.00 37.93
MOTA	7625	N	ALA K 141	152.120 -14.897	27.369	1.00 33.70
ATOM	7626	CA	ALA K 141	151.466 -15.954	28.150	1.00 32.69
ATOM	7627	С	ALA K 141	150.052 -15.561	28.512	1.00 33.78
ATOM	7628	0	ALA K 141	149.791 -14.401	28.845	1.00 37.01
ATOM	7629	CB	ALA K 141	152.215 -16.200	29.416	1.00 28.36
MOTA	7630	N	ALA K 142	149.138 -16.524	28.448	1.00 32.17
MOTA	7631	CA	ALA K 142	147.745 -16.272	28.806	1.00 28.77
MOTA	7632	С	ALA K 142	147.502 -16.858	30.196	1.00 25.39
MOTA	7633	0	ALA K 142	148.036 -17.914	30.528	1.00 23.70
MOTA	7634	CB	ALA K 142	146.805 -16.929	27.781	1.00 25.64
MOTA	7635	И	LEU K 143	146.712 -16.177	31.014	1.00 22.99
ATOM	7636	CA	LEU K 143	146.428 -16.700	32.335	1.00 20.44 1.00 23.79
MOTA	7637	С	LEU K 143	145.220 -15.948	32.891	1.00 23.79
MOTA	7638	0	LEU K 143	144.920 -14.839	32.439	1.00 21.78
MOTA	7639	CB	LEU K 143	147.695 -16.576	33.209	1.00 12.87
MOTA	7640	CG	LEU K 143	147.959 -15.593	34.358	1.00 14.12
MOTA	7641	CD1		149.035 -14.678	33.937 34.757	1.00 11.07
MOTA	7642	CD2		146.706 -14.776	33.840	1.00 21.37
ATOM	7643	N	GLY K 144	144.516 -16.571	34.467	1.00 30.10
MOTA	7644	CA	GLY K 144	143.343 -15.952 142.545 -16.826	35.439	1.00 30.34
MOTA	7645	С	GLY K 144	142.917 -17.976	35.700	1.00 30.93
MOTA	7646	0	GLY K 144	141.445 -16.293	35.972	1.00 26.53
ATOM	7647	N	CYS K 145 CYS K 145	140.618 -17.057	36.908	1.00 19.35
MOTA	7648	CA C	CYS K 145	139.313 -17.582	36.371	1.00 13.73
MOTA	7649 7650	0	CYS K 145	138.689 -16.974	35.515	1.00 15.10
ATOM ATOM	7651	СВ	CYS K 145	140.313 -16.224	38.118	1.00 18.49
ATOM	7652	SG	CYS K 145	141.831 -16.020	39.054	1.00 26.07
ATOM	7653	N	LEU K 146	138.913 -18.740	36.862	1.00 9.12
ATOM	7654	CA	LEU K 146	137.640 -19.307	36.472	1.00 13.28
ATOM	7655	C	LEU K 146	136.725 -19.166	37.697	1.00 17.42
ATOM	7656	0	LEU K 146	136.923 -19.845	38.706	1.00 17.70
ATOM	7657	CB	LEU K 146	137.778 -20.783	36.101	1.00 11.17
ATOM	7658	CG	LEU K 146	136.442 -21.529	36.162	1.00 6.09
ATOM	7659	CD1	LEU K 146	135.358 -20.545	35.702	1.00 9.44
ATOM	7660	CD2	LEU K 146	136.429 -22.765	35.269	1.00 4.37
MOTA	7661	N	VAL K 147	135.754 -18.257	37.602	1.00 19.05
ATOM	7662	CA	VAL K 147	134.786 -17.978	38.657	1.00 21.03
ATOM	7663	С	VAL K 147	133.535 -18.863	38.470	1.00 23.88
ATOM	7664	0	VAL K 147	132.584 -18.478	37.816	1.00 22.31
MOTA	7665	CB	VAL K 147	134.441 -16.457	38.621	1.00 18.13
MOTA	7666		1 VAL K 147	133.666 -16.039	39.836	1.00 24.60
MOTA	7667		2 VAL K 147	135.710 ~15.661	38.585	1.00 13.56
MOTA	7668	. N	LYS K 148	133.551 ~20.053	39.061	1.00 28.26 1.00 32.60
MOTA	7669	CA	LYS K 148	132.469 -21.010	38.911	1.00 32.00
MOTA	7670	C	LYS K 148	131.386 -21.046	39.967 41.136	1.00 37.73
MOTA	7671	0	LYS K 148	131.639 ~20.743		1.00 30.40
ATOM	7672	CB	LYS K 148	133.057 -22.396	38.794 37.422	1.00 31.60
ATOM	7673		LYS K 148	132.920 -22.963 131.635 -23.724	37.422	1.00 33.02
ATOM	7674	CD	LYS K 148	131.894 -25.213	37.230	1.00 33.23
MOTA	7675			131.894 -25.213	38.466	1.00 34.47
MOTA	7676 7677		LYS K 148 ASP K 149	130.195 -21.465	39.501	1.00 39.30
MOTA	7678			128.944 -21.612	40.258	1.00 37.64
MOTA	,0,0	CA	WAT IL TAB	120.011 21.012		

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ATOM	7679	C ASP K 149			1.00 39.90
ATOM	7680	O ASP K 149	20000		1.00 38.31
ATOM	7681	CB ASP K 149	128.822 -23.034	40.773	1.00 36.91
	7682	CG ASP K 149		39.886	1.00 35.44
ATOM				38.699	1.00 36.75
ATOM	7683		130.354 -24.765	40.373	1.00 35.21
MOTA	7684	OD2 ASP K 149	127.938 -19.570	41.045	1.00 37.75
MOTA	7685	N TYR K 150	127.554 -18.570	42.007	1.00 37.60
ATOM	7686	CA TYR K 150	126.241 -18.087	41.484	1.00 37.18
ATOM	7687	C TYR K 150	126.241 -16.007	40.372	1.00 32.64
ATOM	7688	O TYR K 150	125.877 -18.440	42.045	1.00 41.54
ATOM	7689	CB TYR K 150	128.556 -17.445		1.00 46.67
MOTA	7690	CG TYR K 150	128.689 -16.722	40.731	1.00 45.55
MOTA	7691	CD1 TYR K 150	128.436 -15.363	40.639	
ATOM	7692	CD2 TYR K 150	129.082 -17.400	39.574	1.00 47.23
ATOM	7693	CE1 TYR K 150	128.565 -14.704	39.443	1.00 45.73
MOTA	7694	CE2 TYR K 150	129.216 -16.742	38.368	1.00 42.48
ATOM	7695	CZ TYR K 150	128.950 -15.394	38.310	1.00 43.57
ATOM	7696	OH TYR K 150	129.009 -14.716	37.116	1.00 42.58
ATOM	7697	N PHE K 151	125.541 -17.280	42.280	1.00 40.63
	7698	CA PHE K 151	124.205 -16.796	41.927	1.00 38.02
ATOM	7699	C PHE K 151	123.743 -15.760	42.941	1.00 35.13
ATOM		O PHE K 151	123.951 -15.930	44.143	1.00 36.43
MOTA	7700		123.252 -17.987	41.964	1.00 41.25
ATOM	7701		121.833 -17.658	41.637	1.00 43.38
MOTA	7702		121.125 -16.723	42.373	1.00 42.93
MOTA	7703	CD1 PHE K 151	121.200 -18.296	40.585	1.00 45.61
ATOM	7704	CD2 PHE K 151	119.820 -16.428	42.061	1.00 44.13
MOTA	7705	CE1 PHE K 151	119.891 -18.007	40.269	1.00 45.96
MOTA	7706	CE2 PHE K 151	119.199 -17.071	41.007	1.00 45.87
ATOM	7707	CZ PHE K 151	123.123 -14.667	42.472	1.00 33.97
MOTA	7708	N PRO K 152	122.838 -14.313	41.081	1.00 34.63
MOTA	7709	CA PRO K 152	123.973 -13.428	40.612	1.00 37.12
ATOM	7710	C PRO K 152	124.950 -13.212	41.330	1.00 40.43
MOTA	7711	O PRO K 152	121.592 -13.485	41.198	1.00 32.97
MOTA	7712	CB PRO K 152	121.894 -12.667	42.440	1.00 31.24
ATOM	7713	CG PRO K 152	122.620 -13.620	43.379	1.00 33.12
MOTA	7714	CD PRO K 152	123.854 -12.891	39.410	1.00 38.24
MOTA	7715	N GLU K 153	124.902 -11.998	38.948	1.00 39.05
ATOM	7716	CA GLU K 153	124.790 -10.813	39.863	1.00 38.73
MOTA	7717	C GLU K 153		40.594	1.00 42.71
MOTA	7718	O GLU K 153	123.808 -10.683	37.513	1.00 39.93
MOTA	7719	CB GLU K 153	124.672 -11.536	36.466	1.00 48.86
MOTA	7720	CG GLU K 153	125.038 -12.584	35.524	1.00 56.42
MOTA	7721	CD GLU K 153	126.152 -12.128	34.293	1.00 58.10
ATOM	7722	OE1 GLU K 153	125.871 -12.100		1.00 55.14
MOTA	7723	OE2 GLU K 153	127.285 -11.810	36.019	1.00 37.80
ATOM	7724		125.811 ~9.956	39.883	1.00 37.00
ATOM	7725		127.054 -10.000	39.123	1.00 35.16
MOTA	7726	C PRO K 154	128.228 -10.346	40.044	1.00 37.84
MOTA	7727	O PRO K 154	128.183 -10.078	41.248	1.00 37.84
ATOM	7728		127.167 -8.584	38.633	
ATOM	7729		126.651 -7.786	39.825	1.00 33.31
ATOM	7730		125.750 -8.704	40.645	1.00 37.48
ATOM	7731		129.273 -10.934	39.467	
MOTA	7732		130.510 -11.253	40.196	
ATOM	7733		131.536 -10.331	39.548	
ATOM	7734		131.931 -10.533	38.414	
MOTA	7735		131.044 -12.673	39.973	
ATOM	7736		130.996 -13.026	38.541	
ATOM	7737		. 132.491 -12.722	40.384	
MOTA	7738		131.969 -9.309	40.253	1.00 39.70
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		as mun	K 156	132.934	-8.420	39.664	1.00 37.59
		CA THR	K 156	134.320		39,892	1.00 40.28
MOTA	7740	C THR	K 156	134.591			1.00 40.66
MOTA	7741	O THE	K 156	132.827			1.00 37.22
MOTA	7742	CB THE	k k 156 k k 156	133.821	-6.199		1.00 36.14
MOTA	7743	OG1 THE	X X 156	133.022	-7.186	41.877	1.00 42.16
MOTA	7744	CG2 THF	R K 156	135.179	-8.921	38.892	1.00 40.81
MOTA	7745		K 157	136.527	-9.484	38.909	1.00 40.83
MOTA	7746		S К 157	137.593	-8.464	38.549	1.00 40.26
MOTA	7747		L K 157	137.522	-7.826		1.00 40.86
MOTA	7748	o VAI	L K 157	137.322			1.00 41.17
MOTA	7749	CB VAI	ь к 157	138.070	_11 119	37.937	1.00 37.09
MOTA	7750	CG1 VA	ь к 157	135.638	_11.668	38.179	1.00 46.41
MOTA	7751	CG2 VA	L К 157	138.591	-8.318	39.409	1.00 40.12
ATOM	7752	N SE	R K 158	130.551	-7.365	39.131	1.00 39.40
MOTA	7753	CA SE	R K 158		-8.014	39.357	1.00 40.94
MOTA	7754	C SE	R K 158	141.000	-8.971	40.136	1.00 41.57
ATOM	7755	O SE	R K 158	141.117	-6.140	40.014	1.00 38.19
ATOM	7756	CB SE	R K 158	139.535	-5.841	40.558	1.00 42.49
ATOM	7757	OG SE	R K 158	140.805		38.672	1.00 39.39
MOTA	7758	N TR	P K 159	142.011	-7.477	38.756	1.00 36.75
MOTA	7759	CA TR	P K 159	143.365	-7.988	39.523	1.00 40.41
MOTA	7760	C TR	P K 159	144.327	-7.089	39.323	1.00 37.31
ATOM	7761		RP K 159	144.262	-5.840		1.00 37.31
MOTA	7762	CB TR	RP K 159	143.887	-8.238	37.360 36.733	1.00 27.32
ATOM	7763	CG TR	RP K 159	143.272	-9.417	35.964	1.00 27.32
ATOM	7764		RP K 159	142.166	-9.434		1.00 25.92
MOTA	7765	CD2 TF	RP K 159	143.740	-10.767	36.808	1.00 23.84
MOTA	7766	NE1 TF	RP K 159	141.900	-10.711	35.546	1.00 23.04
MOTA	7767		RP K 159	142.855	-11.554	36.045	1.00 23.99
MOTA	7768		RP K 159	144.824	-11.390	37.442	1.00 27.20
MOTA	7769		RP K 159	143.011	-12.927	35.889	1.00 27.20
ATOM	7770		RP K 159	144.983	-12.751	37.294 36.520	1.00 28.23
MOTA	7771	CH2 T	RP K 159		-13.512	40.265	1.00 23.23
MOTA	7772		SN K 160	145.214		41.096	1.00 43.85
ATOM	7773		SN K 160	146.193		41.599	1.00 45.45
MOTA	7774	C A	sn K 160	145.520		41.259	1.00 44.11
MOTA	7775	0 A	SN K 160	145.914		40.302	1.00 40.38
ATOM	7776	CB A	SN K 160	147.440		39.993	1.00 41.09
ATOM	7777		SN K 160	148.259	-7.937	40.511	1.00 40.58
ATOM	7778		SN K 160	147.985		39.139	1.00 41.28
ATOM	7779		SN K 160	149.264		42.367	1.00 46.79
ATOM	7780		ER K 161	144.457		42.956	1.00 47.01
MOTA	7781		ER K 161	143.695		42.187	1.00 47.45
MOTA	7782		ER K 161	143.867			1.00 44.83
MOTA	7783	0 S	ER K 161	144.424			1.00 48.94
ATOM	7784		ER K 161	144.119			1.00 54.86
ATOM	7785		ER K 161	144.593			1.00 47.67
MOTA	7786	N G	LY K 162	143.413			1.00 50.39
MOTA	7787		LY K 162	143.45			1.00 50.16
MOTA	7788		ELY K 162	144.61			1.00 50.77
MOTA	7789		SLY K 162	144.42			
ATOM	7790		ALA K 163	145.82			1.00 50.96
ATOM	7791		ALA K 163	147.04			
ATOM	7792		ALA K 163	147.04			
ATOM	7793	3 O 7	ALA K 163	147.37	5 -2.072	36.592 39.777	
ATOM	779	1 CB A	ALA K 163	148.26			
MOTA	779	5 N 3	LEU K 164	146.65			
ATOM	779	6 CA 1	LEU K 164	146.60			
ATOM	779	7 C 1	LEU K 164	145.25			
MOTA	779		LEU K 164	144.21	6 -5.080	35.990	1.00 40.01

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ATOM	7799	CB	LEU K	164	146.855	-6.199	36.510	1.00 34.23
ATOM	7800	CG	LEU K	164	147.291	-6.899	35.227	1.00 33.56
MOTA	7801	CD1	LEU K	164	148.414	-6.099	34.550	1.00 32.33
ATOM	7802	CD2	LEU K	164	147.759	-8.294	35.537	1.00 32.45
ATOM	7803	N	THR K	165	145.245	-3.750	34.505	1.00 39.35
ATOM	7804	CA	THR K		144.002	-3.517	33.798	1.00 44.64
ATOM	7805	С	THR K	165	144.254	-3.571	32.330	1.00 43.95
ATOM	7806	0	THR K	165	143.414	-3.164	31.535	1.00 47.02
MOTA	7807	CB	THR K	165	143.412	-2.136	34.102	1.00 46.13
ATOM	7808	OG1	THR K	165	144.479	-1.209	34.326	1.00 48.42
ATOM	7809	CG2	THR K	165	142.503	-2.192	35.331	1.00 52.86
MOTA	7810	N	SER K	166	145.416	-4.079	31.965	1.00 41.08
MOTA	7811	CA	SER K	166	145.745	-4.161	30.566	1.00 38.85
ATOM	7812	С	SER K	166	145.821	-5.584	30.087	1.00 34.86
ATOM	7813	0	SER K	166	146.530	-6.409	30.653	1.00 32.70
ATOM	7814	CB	SER K	166	147.065	-3.470	30.285	1.00 43.17
ATOM	7815	OG	SER K	166	147.354	-3.549	28.903	1.00 51.10
ATOM	7816	N	GLY K	167	145.096	-5.873	29.021	1.00 32.90
ATOM	7817	CA	GLY K	167	145.118	-7.226	28.509	1.00 34.09
ATOM	7818	С	GLY K	167	144.077	-8.102	29.172	1.00 33.34
ATOM	7819	0	GLY K	167	143.933	-9.284	28.848	1.00 35.66
ATOM	7820	N	VAL K	168	143.359	-7.525	30.127	1.00 32.00
MOTA	7821	CA	VAL K	168	142.315	-8.256	30.785	1.00 27.18
ATOM	7822	С	VAL K	168	141.115	-8.348	29.866	1.00 25.14
MOTA	7823	0	VAL K	168	140.782	-7.412	29.159	1.00 24.07
ATOM	7824	СВ	VAL K	168	141.883	-7.568	32.032	1.00 27.08
ATOM	7825	CG1	VAL K	168	141.052	-8.548	32.848	1.00 33.77
MOTA	7826	CG2	VAL K	168	143.103	-7.080	32.801	1.00 27.66
ATOM	7827	N	HIS K	169	140.485	-9.508	29.869	1.00 24.23
ATOM	7828	CA	HIS K	169	139.291	-9.752	29.095	1.00 24.42
MOTA	7829	С	HIS K		138.480	-10.563	30.086	1.00 24.77
MOTA	7830	0	HIS K		138.712	-11.762	30.224	1.00 20.56
ATOM	7831	CB	HIS K		139.539		27.888	1.00 27.76
ATOM	7832	CG	HIS K		140.458		26.854	1.00 30.85
MOTA	7833	ND1	HIS K		140.124	-9.009	26.061	1.00 33.96
ATOM	7834		HIS K		141.682		26.449	1.00 37.58
ATOM	7835		HIS K		141.119	-8.779	25.211	1.00 41.56
ATOM	7836	NE2	HIS K		142.075	-9.663	25.428	1.00 34.46
ATOM	7837	N	THR K		137.569	-9.930	30.821	1.00 27.53
ATOM	7838	CA	THR K		136.744		31.743	1.00 24.57
ATOM	7839	C	THR K		135.373		31.049	1.00 23.37
ATOM	7840	0	THR K		134.596		30.785	1.00 19.99
ATOM	7841	CB	THR K		136.616		33.106	1.00 17.78
ATOM	7842	OG1	THR K		135.398		33.738	1.00 13.77
MOTA	7843	CG2	THR K		136.702	-8.535	32.945	1.00 17.40
ATOM	7844	N	PHE K		135.143		30.691	1.00 22.86
ATOM	7845	CA	PHE K		133.958		29.986	1.00 23.34
ATOM	7846	С	PHE K		132.616		30.641	1.00 25.97
ATOM	7847	O	PHE K		132.485		31.869	1.00 31.82
ATOM	7848 7849	CB	PHE K		134.115		29.593	1.00 25.83
ATOM ATOM	7850	CDI	PHE K		135.237 136.521		28.632	1.00 24.55
ATOM	7851		PHE K		135.007		29.103 27.247	1.00 18.47
ATOM	7852	CE1			137.561			1.00 24.24
ATOM	7853		PHE K		136.051		28.227. 26.347	1.00 23.44
ATOM	7854	CEZ	PHE K		137.329		26.831	1.00 25.14 1.00 24.41
ATOM	7855	N	PRO K		131.575		29.811	
ATOM	7856	CA	PRO K		130.219		30.330	1.00 24.59 1.00 25.62
ATOM	7857	C	PRO K		129.804		30.330	1.00 25.62
ATOM	7858	0	PRO K		130.273		30.546	1.00 27.03
	. 555	_	1110 1	J. 14	100.270	11.007	50.540	1.00 21.33

ATOM	7859	CB	PRO K 172	129.416 -11.886	29.084	1.00 22.79
ATOM	7860	CG	PRO K 172	130.166 -12.533	27.999	1.00 18.28
ATOM	7861	CD	PRO K 172	131.599 -12.451	28.345	1.00 17.33
-	7862	N	ALA K 173	128.960 -13.477	32.003	1.00 28.66
MOTA			ALA K 173	128.509 -14.691	32.684	1.00 27.05
MOTA	7863	CA		127.641 -15.514	31.755	1.00 25.70
MOTA	7864	С	ALA K 173	127.037 -14.981	30.810	1.00 20.03
MOTA	7865	0	ALA K 173		33.962	1.00 20.70
ATOM	7866	CB	ALA K 173	127.757 -14.351		1.00 25.70
MOTA	7867	N	VAL K 174	127.646 -16.819	32.000	1.00 28.10
ATOM	7868	CA	VAL K 174	126.871 -17.744	31.203	
ATOM	7869	С	VAL K 174	126.296 -18.804	32.102	1.00 34.11
ATOM	7870	0	VAL K 174	127.026 -19.629	32.674	1.00 39.84
ATOM	7871	CB	VAL K 174	127.710 -18.412	30.114	1.00 22.50
ATOM	7872	CG1	VAL K 174	127.179 -19.787	29.790	1.00 18.60
ATOM	7873	CG2		127.638 -17.589	28.890	1.00 21.22
ATOM	7874	N	LEU K 175	124.975 -18.755	32.220	1.00 34.94
	7875	CA	LEU K 175	124.216 -19.675	33.048	1.00 34.56
ATOM	7876	CA	LEU K 175	124.405 -21.075	32.590	1.00 33.42
ATOM			LEU K 175	123.733 -21.474	31.660	1.00 30.90
MOTA	7877	0		122.731 -19.365	32.959	1.00 34.58
ATOM	7878	CB	LEU K 175		34.105	1.00 27.68
MOTA	7879	CG	LEU K 175	121.839 -19.800		1.00 27.00
ATOM	7880	CD1		122.611 -19.085	35.453	1.00 30.03
MOTA	7881	CD2		120.740 -18.803	34.153	
MOTA	7882	N	GLN K 176	125.299 -21.820	33.235	1.00 36.12
MOTA	7883	CA	GLN K 176	125.529 -23.202	32.839	1.00 38.64
ATOM	7884	С	GLN K 176	124.282 -23.927	33.264	1.00 36.59
MOTA	7885	0	GLN K 176	123.452 -23.340	33.941	1.00 34.63
ATOM	7886	CB	GLN K 176	126.742 -23.777	33.565	1.00 40.93
ATOM	7887	CG	GLN K 176	126.776 -23.435	35.035	1.00 43.63
ATOM	7888	CD	GLN K 176	128.186 -23.266	35.575	1.00 44.75
ATOM	7889	OE1		129.139 -23.927	35.117	1.00 43.59
ATOM	7890	NE2		128.328 -22.381	36.564	1.00 41.87
ATOM	7891	N	SER K 177	124.134 -25.180	32.851	1.00 36.76
	7892	CA	SER K 177	122.988 -25.967	33.242	1.00 36.33
ATOM		C	SER K 177	123.018 -25.922	34.749	1.00 39.80
ATOM	7893		SER K 177	123.810 -25.176	35.311	1.00 44.64
ATOM	7894	0	SER K 177	123.160 -27.385	32.811	1.00 35.31
ATOM	7895	CB		122.360 -28.189	33.643	1.00 45.92
ATOM	7896	OG	SER K 177	122.227 -26.731	35.438	1.00 37.95
ATOM	7897	N	SER K 178	122.238 -26.584	36.879	1.00 38.90
MOTA	7898	CA	SER K 178	121.723 -25.138	37.034	1.00 38.24
MOTA	7899	С	SER K 178	121.723 -25.136	36.082	1.00 40.94
MOTA	7900	0	SER K 178	121.203 -24.560	37.426	1.00 38.18
ATOM	7901	СВ	SER K 178	123.655 -26.692		1.00 37.92
MOTA	7902	OG	SER K 178	124.100 -25.419	37.854	
MOTA	7903	N	GLY K 179	121.852 -24.508	38.182	1.00 35.13
MOTA	7904	CA	GLY K 179	121.285 -23.184	38.200	1.00 38.59
MOTA	7905	С	GLY K 179	122.196 -22.003	38.283	1.00 41.94
ATOM	7906	0	GLY K 179	121.750 -20.878	38.093	1.00 43.16
ATOM	7907		LEU K 180	123.467 -22.257	38.542	1.00 44.19
ATOM	7908	CA	LEU K 180	124.432 -21.188	38.7 <i>2</i> 0	1.00 46.16
ATOM	7909		LEU K 180	125.174 -20.682	37.487	1.00 47.25
ATOM	7910		LEU K 180	125.228 -21.365	36.462	1.00 47.58
ATOM	7911	СВ	LEU K 180	125.435 -21.627	39.780	1.00 48.36
ATOM	7912		LEU K 180	124.958 -22.817	40.621	1.00 47.21
	7913			125.422 -24.092	39.979	1.00 47.47
ATOM			2 LEU K 180	125.507 -22.722		1.00 51.42
MOTA	7914		TYR K 181	125.746 -19.477		
ATOM	7915			126.521 -18.810		
MOTA	7916		TYR K 181	127.995 -19.117		
MOTA	7917		TIK V TOT	128.466 -19.487		
MOTA	7918	0	TYR K 181	120.300 15.307	- · · · · ·	

				06 651	1.00 46.44
ATOM	7919	CB TYR K 181			1.00 47.83
ATOM	7920	CG TYR K 181	TT 11200 TO 11	36.408	1.00 47.83
ATOM	7921	CD1 TYR K 181	1211000 21111	35.184	
ATOM	7922	CD2 TYR K 181	20110	37.415	1.00 49.28
ATOM	7923	CE1 TYR K 181	120.010	34.961	1.00 48.46
ATOM	7924	CE2 TYR K 181	122.00	37.195	1.00 48.80
ATOM	7925	CZ TYR K 181	122.310 -16.175	35.962	1.00 47.63
ATOM	7926	OH TYR K 181	120.997 -15.923	35.709	1.00 49.07
	7927	N SER K 182	128.720 -18.952	35.567	1.00 40.50
MOTA	7928	CA SER K 182	130.156 -19.201	35.553	1.00 38.82
ATOM	7929	C SER K 182	130.918 -18.395	34.521	1.00 35.92
ATOM			130.867 -18.687	33.338	1.00 38.84
ATOM	7930	100	130.447 -20.687	35.323	1.00 39.69
ATOM	7931	4.00	131.817 -20.928	35.032	1.00 37.12
MOTA	7932	100	131.648 -17.391	34.976	1.00 32.73
MOTA	7933		132.447 -16.581	34.074	1.00 30.10
MOTA	7934	4.00	133.957 -16.772	34.378	1.00 32.35
MOTA	7935		134.367 -17.148	35.492	1.00 30.94
MOTA	7936		132.045 -15.081	34.171	1.00 24.20
MOTA	7937	CB LEU K 183	132.507 -14.203	35.357	1.00 20.65
ATOM	7938	CG LEU K 183	133.997 -13.968	35.377	1.00 18.20
MOTA	7939	CD1 LEU K 183	131.808 -12.886	35.274	1.00 17.62
MOTA	7940	CD2 LEU K 183	134.776 -16.508	33.363	1.00 33.47
MOTA	7941	N SER K 184	136.224 -16.607	33.471	1.00 29.61
MOTA	7942	CA SER K 184	136.224 -16.607	33.084	1.00 26.10
MOTA	7943	C SER K 184	136.841 -15.284	32.043	1.00 22.06
MOTA	7944	O SER K 184	136.501 -14.726	32.535	1.00 32.03
MOTA	7945	CB SER K 184	136.752 -17.673	33.245	1.00 32.03
MOTA	7946	OG SER K 184	137.585 -18.561	33.947	1.00 28.13
MOTA	7947	N SER K 185	137.713 -14.766	33.692	1.00 27.16
MOTA	7948	CA SER K 185	138.407 -13.504		1.00 27.32
MOTA	7949	C SER K 185	139.826 -13.881	33.305 34.044	1.00 24.21
ATOM	7950	O SER K 185	140.540 -14.579		1.00 24.21
MOTA	7951	CB SER K 185	138.430 -12.595	34.936 34.568	1.00 20.07
MOTA	7952	OG SER K 185	138.613 -11.229		1.00 26.94
ATOM	7953	N VAL K 186	140.235 -13.400	32.140	1.00 25.23
ATOM	7954	CA VAL K 186	141.557 -13.706	31.635	1.00 25.23
MOTA	7955	C VAL K 186	142.390 -12.491	31.223	1.00 20.04
ATOM	7956	O VAL K 186	141.856 -11.446	30.849	1.00 30.02
ATOM	7957	CB VAL K 186	141.450 -14.643	30.484	1.00 21.44
ATOM	7958	CG1 VAL K 186	142.700 -14.604	29.694	1.00 23.13
ATOM	7959	CG2 VAL K 186	141.208 -16.031	31.013	
ATOM	7960	N VAL K 187	143.709 -12.647	31.288	1.00 25.87 1.00 19.76
MOTA	7961	CA VAL K 187	144.651 -11.576	30.958	1.00 19.70
MOTA	7962	C VAL K 187	145.874 -12.169	30.324	1.00 18.20
MOTA	7963	O VAL K 187	146.315 -13.252	30.695	
ATOM	7964	CB VAL K 187	145.125 -10.850	32.210	1.00 18.10
ATOM	7965	CG1 VAL K 187	145.639 -11.843	33.201	1.00 20.27
ATOM	7966		146.189 -9.898	31.877	1.00 14.05
ATOM	7967		146.427 -11.457	29.361	1.00 14.79
MOTA	7968		147.624 -11.932	28.728	1.00 9.90
ATOM	7969		148.729 -10.990	29.162	1.00 13.15
ATOM	7970		148.601 -9.756		
ATOM	7971		147.457 -11.964	27.245	
ATOM	7972		147.348 -10.639	26.735	
ATOM	7973		146.197 -12.653	26.937	
MOTA	7974		149.810 -11.597	29.613	
MOTA	7975		150.972 -10.880	30.091	
ATOM	7976		152.198 -11.428	29.374	
ATOM	797		152.178 -12.526	28.818	
MOTA	7978		151.183 -11.080	31.579	1.00 18.11
		•			

	7979 CG1 VAL K 189	149.968 -10.705 32.326 1.00 19.27
MOTA		151 496 -12 511 31.847 1.00 18.00
ATOM		152 200 -10 678 29.407 1.00 25.25
MOTA	** 100	154 400 -11 139 28.738 1.00 29.50
MOTA	100	154.054 - 12.370 29.452 1.00 32.39
MOTA		154 065 -12 388 30.674 1.00 28.53
MOTA		155 473 -9 991 28.937 1.00 29.11
MOTA	7985 CB PRO K 190	154 646 -8.843 29.262 1.00 26.06
ATOM	7986 CG PRO K 190	153 554 -9 406 30.083 1.00 25.73
MOTA	7987 CD PRO K 190	155 344 -13 382 28.686 1.00 36.89
ATOM	7988 N SER K 191	155 800 -14 636 29.254 1.00 38.26
MOTA	7989 CA SER K 191	156.944 -14.375 30.187 1.00 40.16
MOTA	7990 C SER K 191	156.903 -14.765 31.346 1.00 40.03
MOTA	7991 O SER K 191	156.258 -15.576 28.155 1.00 37.23
ATOM	7992 CB SER K 191	155.548 -16.790 28.242 1.00 39.16
MOTA	7993 OG SER K 191	157.960 -13.692 29.671 1.00 42.19
MOTA	7994 N SER K 192	157.960 -13.052 25.072 1.00 43.15
ATOM	7995 CA SER K 192	109.140 10.000
MOTA	7996 C SER K 192	130.000 12:770
MOTA	7997 O SER K 192	133.031 12.000
MOTA	7998 CB SER K 192	139.900 12.070
ATOM	7999 OG SER K 192	139.030 11.00
ATOM	8000 N SER K 193	137.330 12.000
ATOM	8001 CA SER K 193	13/.132 11.7.2
ATOM	8002 C SER K 193	100.012 10.11
ATOM	8003 O SER K 193	137.322 12.07
ATOM	8004 CB SER K 193	133.073 10.000
MOTA	8005 OG SER K 193	104.111 11
ATOM	8006 N LEU K 194	130.140 13.00-
ATOM	8007 CA LEU K 194	100.011 14.001
ATOM	8008 C LEU K 194	130.024 13.000
MOTA	8009 O LEU K 194	130,470 13000
MOTA	8010 CB LEU K 194	133,302 10,400
ATOM	8011 CG LEU K 194	134.495 10.101
ATOM	8012 CD1 LEU K 194	155.002 10.700
ATOM	8013 CD2 LEU K 194	133.233 1002
MOTA	8014 N GLY K 195	130.000 14.000
MOTA	8015 CA GLY K 195	139.000 13.000
ATOM	8016 C GLY K 195	109.194 10.120
ATOM	8017 O GLY K 195	139.037 13.700 00.
MOTA	8018 N THR K 196	133.400 12.020
MOTA	8019 CA THR K 196	139.390 11.000
ATOM	8020 C THR K 196	130.243 10.000
ATOM	8021 O THR K 196	130.174 100 57 98
ATOM	8022 CB THR K 196	100.332 10.220
ATOM	8023 OG1 THR K 196	100.410
ATOM	8024 CG2 THR K 196	101.120 2011
ATOM	8025 N GLN K 197	13/.120 22:
ATOM	8026 CA GLN K 197	133.003 10.00
ATOM	1 8027 C GLN K 197	134.070 11.00
- ATOM	1 8028 O GLN K 197	134.030 12.020 27 050 1 00 61 87
ATOM	1 8029 CB GLN K 197	2 462 27 082 1 00 64.84
ATOM	4 8030 CG GLN K 197	155.105 5.60 20 000 1 00 66 87
ATON	4 8031 CD GLN K 197	2 500 30 118 1 00 63 94
MOTA	4 8032 OE1 GLN K 197	133.909 0.007 27 707 1 00 68.99
ATON	M 8033 NE2 GLN K 197	133.330 3.001 30 703 1 00 54.25
ATON	_M 8034 N THR K 198	134.033 14.002 40 416 1 00 52 75
ATO	M 8035 CA THR K 198	132.300 11.00 20 070 1 00 51.20
ATO	M 8036 C THR K 198	131.023 11.000 20 500 1 00 52 25
ATO	M 8037 O THR K 198	131.477 1005 47 042 1 00 51 36
ATO		153.014 -11.805 41.942 1.00 51.36

		1	mun 1/ 1/	0.0	151.9	22	-12.	559	42.482	1.00	47.91
ATOM	8039		THR K 1	70 00	152.8	194	-10.		42.370	1.00	
MOTA	8040	CG2	THR K 1	00 20	150.6	522	-12.		40.035	1.00	46.04
MOTA	8041	N	TYR K 1	00	149.2	986	-11.	873	39.627	1.00	
MOTA	8042	CA	TYR K 1		148.2	200	_12		40.541	1.00	
ATOM	8043	С	TYR K 1		148.2	777	-12		40.929	1.00	
MOTA	8044	0	TYR K 1		149.0	200	_13.	347	38.204		35.13
MOTA	8045	CB	TYR K 1		149.9	303 371	_11	824	37.190		29.72
MOTA	8046	CG	TYR K 1		150.0				36.930	1.00	29.20
MOTA	8047	CD1	TYR K 1	99	150.	701	_12	692	36.472	1.00	27.01
MOTA	8048	CD2	TYR K 1	.99	150.		12.	968	35.969		30.84
MOTA	8049	CEL	TYR K 1	.99	151.				35.506		27.97
MOTA	8050		TYR K 1	.99	151.				35.255		29.92
MOTA	8051	CZ	TYR K 1	.99	152.				34.273		31.25
MOTA	8052	OH	TYR K 1	.99			-11.		40.887		37.44
MOTA	8053	N	ILE K 2	200	147.	200	-12.	072	41.709		36.69
ATOM	8054	CA	ILE K 2	200	146.	72.1	-12.	524	41.149		36.63
MOTA	8055	С	ILE K 2	200	144.	017	-11.	250	40.739		34.92
MOTA	8056	0	ILE K 2		144.	8T 1	-10.	610	43.148		36.15
MOTA	8057	CB	ILE K 2	200	140.	70T	-11.	121	43.431	1 00	34.14
MOTA	8058	CG1		200			-11.		44.070	1 00	36.57
MOTA	8059	CG2		200	145.	625	-12	220	43.815	1 00	35.41
MOTA	8060	CDI			148.	0.40	-12	200	41.095		33.50
MOTA	8061	N	CYS K 2		143.	543	-12	074	40.615		28.97
MOTA	8062	CA	CYS K		142.	533	-11	762	41.878		30.57
MOTA	8063	С	CYS K		141.	103	-11	. / 03	42.914		27.90
ATOM	8064	0	CYS K		141.	916	-12	.430	39.653		20.39
MOTA	8065	CB	CYS K	201	141.	894	-13	. UUI	40.402		24.24
MOTA	8066	SG	CYS K	201	141.	365	-14 -10	001	41.798		30.38
MOTA	8067	N	ASN K	202	140.	787	-10	161	42.934		32.95
MOTA	8068	CA	ASN K	202	139.	. 909 405	-10	627	42.643		34.14
MOTA	8069	С	ASN K	202				.711	42.236		38.45
MOTA	8070	0	ASN K		137			.036	43.364		32.91
MOTA	8071	CB	ASN K		140			.606	43.027		36.07
MOTA	8072	CG	ASN K		141 141		_	.717	42.199		37.36
MOTA	8073	OD.	1 ASN K	202	141			.233	43.666		35.74
MOTA	8074		2 ASN K	202				.830	42.850		35.31
MOTA	8075	И	VAL K	203	136	562	1 -12	.033	42.600	1.00	37.83
MOTA	8076	CA			130	215	-11	.469	43.782	1.00	43.45
MOTA	8077	С	VAL K		126	201	11	.669	44.938		45.32
MOTA	8078	0	VAL. K		136	215	13	3.534	42.485		38.26
MOTA	8079	CB			134	91	5 -13	8.866	43.231		33.53
ATOM	8080		1 VAL K		136	DA:	2 -13	3.906	41.048		35.96
MOTA	8081		2 VAL K ASN K		134	73	7 -10	7.759	43.492		49.37
MOTA	8082				133	896	5 -10	215	44.542		54.02
MOTA	8083	CA		204		411		161	44 22R		53.02

	0000 111	E2 HIS K 205	126.846 -14.515	44.016	1.00 43.13
ATOM		LYS K 206		45.872	1.00 54.51
MOTA	8100 N	DIS K 206	128.425 -8.957	46.832	1.00 54.34
MOTA	8101 CA	LYS K 206	127.146 -9.657		1.00 53.87
ATOM	8102 C	LYS K 206			1.00 54.78
ATOM	8103 O	LYS K 206	126.885 -9.796	-	1.00 54.10
MOTA	8104 C	B LYS K 206	128.100 -7.583		
MOTA	8105 C	^^	129.353 -6.742		1.00 60.38
MOTA	8106 C		129.117 -5.261		1.00 62.01
	8107 C		130.274 -4.396	45.852	1.00 63.98
ATOM		000	130.606 -4.625	44.410	1.00 68.50
MOTA			126.320 -10.088	46.320	1.00 50.04
MOTA	8109 N	007	125.070 -10.790	46.604	1.00 44.50
MOTA	8110 C		125.246 -11.947	47.562	1.00 42.38
MOTA	8111 C	PRO K 207	124.304 -12.661	47.820	1.00 41.63
MOTA	8112 0	PRO K 207	124.622 -11.278	45.239	1.00 46.42
ATOM	8113 C	B PRO K 207	125.162 -10.272	44.297	1.00 47.51
·ATOM	8114 C	G PRO K 207		44.874	1.00 50.18
MOTA	8115 C	D PRO K 207	126.503 -9.879		1.00 45.08
MOTA	8116 N	SER K 208	126.454 -12.151	48.062	1.00 43.00
ATOM	8117 C	A SER K 208	126.724 -13.208	49.018	
ATOM	8118	SER K 208	127.848 -12.780	49.954	1.00 56.13
ATOM		SER K 208	128.344 -13.575	50.765	1.00 58.36
ATOM		B SER K 208	127.102 -14.505	48.299	1.00 54.27
ATOM		G SER K 208	128.189 -14.326	47.415	1.00 51.35
		ASN K 209	128.236 -11.514	49.847	1.00 57.13
ATOM		CA ASN K 209	129.294 -10.977	50.674	1.00 61.67
ATOM			130.599 -11.609	50.242	1.00 62.07
MOTA		000	131.659 -11.226	50.717	1.00 64.54
ATOM			129.003 -11.309	52.143	1.00 68.45
MOTA			130.264 -11.424	52.997	1.00 72.93
MOTA	8127		131.019 -10.458	53.124	1.00 75.80
ATOM		OD1 ASN K 209	130.483 -12.602	53.604	1.00 72.18
ATOM		ND2 ASN K 209	130.483 -12.588	49.347	1.00 61.57
MOTA	8130	N THR K 210		48.850	1.00 63.55
ATOM		CA THR K 210	131.697 -13.288	48.273	1.00 63.32
MOTA	8132	C THR K 210	132.818 -12.408	47.675	1.00 61.73
ATOM	8133	O THR K 210	132.572 -11.361		1.00 64.07
MOTA	8134	CB THR K 210	131.297 -14.320	47.786	1.00 69.98
ATOM	8135	OG1 THR K 210	130.613 -15.404	48.421	1.00 66.93
ATOM	8136	CG2 THR K 210	132.520 -14.879	47.101	1.00 62.10
ATOM		N LYS K 211	134.058 -12.845	48.486	1.00 52.10
ATOM	8138	CA LYS K 211	135.233 -12.158	47.977	
ATOM	8139	C LYS K 211	136.440 -13.104	48.113	1.00 57.59
MOTA	8140	O LYS K 211	136.710 -13.680	49.177	1.00 58.02
ATOM	8141	CB LYS K 211	135.475 -10.862	48.740	1.00 63.40
ATOM	8142	CG LYS K 211	136.939 -10.646	49.070	1.00 71.64
ATOM	8143	CD LYS K 211	137.589 -9.637	48.144	1.00 75.28
MOTA	8144	CE LYS K 211	138.945 -9.192		1.00 79.56
	8145	NZ LYS K 211	139.669 -8.253	47.789	1.00 83.97
MOTA			137.159 -13.262		1.00 54.45
ATOM	8146		138.312 -14.141	46.962	1.00 50.51
MOTA	8147		139.441 -13.468	46.185	1.00 51.64
MOTA	8148		139.202 -12.631		1.00 52.37
MOTA	8149	O VAL K 212	137.941 -15.485		
ATOM	8150	CB VAL K 212	139.155 -16.373		
MOTA		CG1 VAL K 212	136.890 -16.204	_	
MOTA		CG2 VAL K 212			
MOTA		N ASP K 213	140.673 -13.828		
ATOM	8154	CA ASP K 213	141.845 -13.302		
MOTA	8155	C ASP K 213	142.731 -14.498		
ATOM		O ASP K 213	143.572 -14.982		
ATOM		CB ASP K 213	142.585 -12.33	9 46.772	
ATOM		CG ASP K 213	141.776 -11.09	9 47.088	1.00 30.90

ATOM	8159	OD1	ASP K 213	141.134 -1	0.537	46.160	1.00 50.25
ATOM	8160		ASP K 213	141.795 -1	0.695	48.274	1.00 53.25
ATOM	8161	N	LYS K 214	142.498 -1	5.004	44.231	1.00 40.96
ATOM	8162	CA	LYS K 214	143.267 -1	6.131	43.715	1.00 36.53
ATOM	8163	С	LYS K 214	144.592 -1	5.615	43.131	1.00 37.42
MOTA	8164	Ō	LYS K 214	144.596 -1	4.778	42.219	1.00 34.66
ATOM	8165	СВ	LYS K 214	142.475 -1	6.869	42.636	0.00 33.92
ATOM	8166	CG	LYS K 214	142.633 -1	8.376	42.686	0.00 29.45
ATOM	8167	CD	LYS K 214	143.875 -1	8.825	41.936	0.00 26.22
ATOM	8168	CE	LYS K 214	144.867 -1	9.500	42.867	0.00 24.17
ATOM	8169	NZ	LYS K 214	144.289 -2	0.712	43.510	0.00 22.47
ATOM	8170	N	LYS K 215	145.711 -1	6.083	43.695	1.00 35.45
ATOM	8171	CA	LYS K 215	147.034 -1	5.710	43.209	1.00 29.72
ATOM	8172	C	LYS K 215	147.254 -1	6.723	42.103	1.00 30.13
ATOM	8173	õ	LYS K 215	147.450 -1		42.383	1.00 29.38
ATOM	8174	СВ	LYS K 215	148.090 -1		44.302	0.00 27.79
MOTA	8175	CG	LYS K 215	149.524 -1		43.830	0.00 23.68
ATOM	8176	CD	LYS K 215	150.446 -1		44.991	0.00 20.52
ATOM	8177	CE	LYS K 215	151.073 -1		45.588	0.00 18.40
ATOM	8178	NZ	LYS K 215	151.713 -1		46.905	0.00 16.55
	8179	N	VAL K 216	147.170 -1		40.851	1.00 29.79
ATOM	8180	CA	VAL K 216	147.378 -1		39.746	1.00 30.67
ATOM ATOM	8181	C	VAL K 216	148.872 -3		39.606	1.00 35.17
	8182	Ö	VAL K 216	149.623 -1		39.484	1.00 41.25
ATOM	8183	CB	VAL K 216	146.855 -1		38.422	1.00 26.43
ATOM ATOM	8184	CG1		146.736 -		37.444	1.00 24.27
ATOM	8185	CG2		145.537 -3		38.618	1.00 25.66
-	8186	N	GLU K 217	149.314 -1		39.665	1.00 36.49
ATOM ATOM	8187	CA	GLU K 217	150.726 -		39.564	1.00 39.83
ATOM	8188	C	GLU K 217	150.878 -		38.467	1.00 40.38
ATOM	8189	Ö	GLU K 217	150.010 -2		38.287	1.00 42.09
ATOM	8190	СВ	GLU K 217	151.222 -		40.867	1.00 45.25
ATOM	8191	CG	GLU K 217	150.920 -		42.058	1.00 50.68
ATOM	8192	CD	GLU K 217	151.420 -		43.354	1.00 55.33
ATOM	8193	OE:		150.604 -		44.087	1.00 55.51
ATOM	8194	OE		152.632 -		43.630	1.00 57.09
ATOM	8195	N	PRO K 218	151.991 -		37.736	1.00 37.80
ATOM	8196	CA	PRO K 218	152.260 -		36.622	1.00 37.69
ATOM	8197	C	PRO K 218	152.528 -		37.035	1.00 37.63
ATOM	8198	Ö	PRO K 218	153.669 -		37.120	1.00 41.56
ATOM	8199	СВ	PRO K 218	153.469 -		35.954	1.00 37.53
MOTA	8200	CG	PRO K 218	154.195 -		37.113	1.00 38.01
ATOM	8201	CD	PRO K 218	153.098 -	18.900	37.953	1.00 35.77
ATOM	8202		LYS K 219	151.470 -		37.307	1.00 39.82
ATOM	8203			151.603 -		37.666	1.00 39.98
ATOM	8204	С	LYS K 219		25.007	36.332	1.00 43.18
ATOM	8205		LYS K 219		24.762	35.740	1.00 43.66
ATOM	8206			150.312 -		38.300	0.00 36.29
ATOM	- 8207					39.779	0.00 31.33
ATOM	8208					40.111	0.00 27.25
ATOM	8209					40.644	0.00 24.66
ATOM	8210					39.556	0.00 22.54
ATOM	8211					35.882	1.00 46.37
ATOM	8212		ASP M 1			13.643	1.00 33.51
ATOM	8213		_			13.996	1.00 30.05
ATOM	8214		ASP M 1			12.831	1.00 27.09
ATOM	8215		ASP M 1			12.060	1.00 32.76
ATOM	8216					15.205	
ATOM	8217					16.484	1.00 32.61
ATOM	8218		1 ASP M 1				1.00 31.32

							17.586	1.00 30.12
ATOM	8219	OD2 Z	ASP M	1	102.161 -	_		1.00 30.12
MOTA	8220		ILE M	2	102.756	-9.164 0.754		1.00 11.44
MOTA	8221		ILE M	2	103.636	-8.754 -9.133		1.00 10.88
MOTA	8222	-	ILE M	2	105.044	-9.053		1.00 7.19
MOTA	8223	_	ILE M	2	105.394	-7.273		1.00 8.21
MOTA	8224		ILE M	2	103.613	-6.770		1.00 2.00
MOTA	8225		ILE M	2	102.185 104.280	-6.967	10.121	1.00 20.86
MOTA	8226		ILE M	2	104.280	-5.645	10.438	1.00 2.00
MOTA	8227		ILE M	2	101.984	-9.564	11.056	1.00 11.70
MOTA	8228		VAL M	3	107.236	-9.944	11.327	1.00 11.40
ATOM	8229		VAL M	3	107.236	-9.098	10.547	1.00 13.15
MOTA	8230	-	VAL M	3	108.196	-9.041	9.309	1.00 15.60
MOTA	8231	_	VAL M	3	107.516		11.017	1.00 4.68
MOTA	8232		VAL M	3	107.516	-11.742	11.629	1.00 2.00
MOTA	8233		VAL M	3	106.444	-12.272	11.595	1.00 8.10
MOTA	8234		VAL M	3	109.089	-8.415	11.293	1.00 13.44
MOTA	8235	N	LEU M	4	110.082	-7.537	10.690	1.00 12.75
MOTA	8236	CA	LEU M	4	111.414	-8.249	10.634	1.00 11.68
MOTA	8237	С	LEU M	4	111.863	-8.823	11.616	1.00 13.03
MOTA	8238	0	LEU M	4	110.201	-6.245	11.506	1.00 9.28
MOTA	8239	CB	LEU M	4	108.852	-5.521	11.674	1.00 8.93
MOTA	8240	CG	LEU M	4	109.057	-4.139	12.427	1.00 2.00
ATOM	8241	CD1		4	108.178	-5.374	10.251	1.00 2.00
MOTA	8242	CD2	LEU M	4	112.056	-8.215	9.483	1.00 10.66
MOTA	8243	N	THR M	5	113.334	-8.872	9.380	1.00 9.04
MOTA	8244	CA	THR M	5 5	114.332	-7.806	9.028	1.00 11.40
ATOM	8245	С	THR M	5	114.189	-7.131	8.018	1.00 16.23
ATOM	8246	0	THR M	5	113.279	-9.859	8.311	1.00 10.57
ATOM	8247	CB	THR M	5	112.556		8.789	1.00 14.08
ATOM	8248	OG1		5	114.659		7.886	1.00 13.15
ATOM	8249	CG2	THR M GLN M	6	115.335	-7.609	9.866	1.00 10.24
ATOM	8250	И	GLN M	6	116.303		9.558	1.00 9.75
ATOM	8251	CA	GLN M	6	117.470		8.753	1.00 6.88
ATOM	8252	C	GLN M	6	117.523		8.506	1.00 2.86
ATOM	8253	O CP	GLN M	6	116.836		10.845	1.00 7.11
ATOM	8254	CB CG	GLN M	6	115.824		11.879	1.00 2.00
MOTA	8255		GLN M	6	116.396		12.941	1.00 4.98
MOTA	8256 8257			6	115.788		13.976	1.00 9.53
MOTA	8258			6	117.565		12.682	1.00 12.84
MOTA	8259		SER M	7	118.421		8.366	1.00 7.52
ATOM	8260		SER M	7	119.539		7.592	1.00 8.57
ATOM ATOM	8261		SER M	7	120.419	-5.659		1.00 9.15
ATOM	8262		SER M	7	119.933		6.904	1.00 15.03
ATOM	8263		SER M	7	119.057	7.492		1.00 5.95
ATOM	8264		SER M	7	119.860	7.070		1.00 11.30
MOTA	8265		PRO M	8	121.730			1.00 8.07
ATOM	8266			8	122.390	7.083		
ATOM	8267		PRO M	8	122.19	4 -7.208		
MOTA	8268		PRO M	8	121.86			
MOTA	8269			8	123.85			
MOTA	8270			8	123.97			
ATOM	827				122.70			
ATOM	8272		ALA M		122.50			
ATOM	827				122.36			
ATOM	827		ALA M		123.51			
ATOM	827		ALA M		123.36			
MOTA	827		ALA M	9	122.43			
ATOM			THR M	10	124.67			
MOTA			THR M	10	125.80	8 -7.07	0 11.569	, 1.00 3.34

		_	m::D \/	3.0		126.260	-6.202	10.431	1.00	7.00
MOTA	8279		THR M	10		126.338	-6.664	9.308	1.00	8.25
ATOM	8280	_	THR M	10			-7.850	11.892	1.00	4.83
MOTA	8281	CB	THR M	10		127.005	-8.862	12.880	1.00	6.92
MOTA	8282	OG1	THR M	10		126.732	-6.854	12.412	1.00	5.91
MOTA	8283	CG2	THR M	10		128.002		10.701	1.00	7.43
MOTA	8284	N	LEU M	11		126.494	-4.927	9.673	1.00	3.43
ATOM	8285	CA	LEU M	11		126.959	-4.011		1.00	5.26
ATOM	8286	С	LEU M	11		128.187	-3.432	10.311		2.00
ATOM	8287	0	LEU M	11		128.103	-2.696	11.306	1.00	2.00
MOTA	8288	СВ	LEU M	11		125.929	-2.931	9.440	1.00	
MOTA	8289	CG	LEU M			126.065	-1.884	8.343	1.00	4.25
	8290	CD1	LEU M			127.405	-1.139	8.525	1.00	8.66
MOTA	8291	CD2	LEU M			125.868	-2.553	6.963	1.00	2.00
MOTA	8292	N	SER M			129.338	-3.768	9.735	1.00	8.72
MOTA		CA	SER M			130.607	-3.291	10.275	1.00	6.49
MOTA	8293			_		130.972	-2.147	9.390	1.00	5.00
MOTA	8294	C	SER M			131.083	-2.298	8.188	1.00	2.96
MOTA	8295	0	SER M			131.654	-4.365	10.208	1.00	4.48
MOTA	8296	CB	SER M			131.095	-5.545	10.745	1.00	17.82
ATOM	8297	OG	SER M				-0.984	10.001	1.00	3.09
ATOM	8298	N	VAL M			131.077	0.242	9.309	1.00	4.19
MOTA	8299	CA	VAL M			131.376		10.155	1.00	7.65
ATOM	8300	С	VAL N			132.470	0.893		1.00	2.00
MOTA	8301	0	VAL N	4 13		132.694	0.464	11.309	1.00	4.47
MOTA	8302	CB	VAL N	4 13		130.084	1.124	9.273		2.00
ATOM	8303	CG1	VAL N	4 13		130.012	2.019	10.505	1.00	9.79
ATOM	8304	CG2	VAL I	м 13		130.059	1.995	8.046	1.00	
ATOM	8305	N	SER 1	M 14		133.164	1.884	9.581	1.00	8.33
ATOM	8306	CA	SER 1			134.226	2.610	10.295		10.80
ATOM	8307	C	SER I			133.715	3.979	10.475		
MOTA	8308	ō	SER			132.930	4.440	9.631	1.00	12.13
	8309	СВ	SER			135.468	2.735	9.456	1.00	17.20
MOTA	8310	OG	SER			135.115	3.133	8.135		30.11
ATOM	8311	И	PRO			134.217	4.696	11.514	1.00	9.32
ATOM		CA	PRO			133.723	6.066	11.740	1.00	3.81
ATOM	8312		PRO			133.982	6.741	10.440	1.00	3.47
MOTA	8313		PRO			134.839		9.720	1.00	7.20
ATOM	8314	0		_		134.573			1.00	2.00
MOTA	8315		PRO			135.134			1.00	2.00
MOTA	8316		PRO			135.287			1.00	2.08
MOTA	8317					133.207			1.00	4.37
MOTA	8318		GLY						1.00	9.14
MOTA	8319					133.417			1.00	
MOTA	8320		GLY			132.776				14.77
MOTA	8321	. 0	${ t GLY}$			132.624				12.27
MOTA	8322		\mathtt{GLU}			132.402			1 00	18.76
MOTA	8323	CA				131.735			1.00	21.25
MOTA	8324	C	GLU			130.202			_	24.48
MOTA	8325	0	${ t GLU}$	M 17		129.613				14.15
MOTA	8326		GLU	M 17		132.053				21.95
ATOM	8327		GLU	M 1-7		131.960				21.93
MOTA	8328			M 17		132.484				29.88
ATOM	8329					132.996	5 1.273			27.12
	833					132.37	4 0.938	4.895		20.17
MOTA	833		ARG			129.543				19.04
MOTA	833					128.10		3 5.918	_	14.96
ATOM			ARG			127.54		9 6.022		14.90
MOTA	833					128.00				14.20
ATOM	833					127.60			2 1.00	15.07
MOTA	833					126.22		_	3 1.00	18.97
ATOM	833					126.22			2 1.00	28.84
MOTA	833									38.58
MOTA	833	8 N	E ARG	М 18	•	124.75	, ,,,,,			

						7 706	1.370	1.00 43.40
ATOM	8339	CZ	ARG M	18	124.105	7.186		1.00 47.13
ATOM	8340	NHl	ARG M	18	124.612	6.484	0.354	1.00 47.13
ATOM	8341	NH2	ARG M	18	122.946	7.837	1.227	
ATOM	8342	N	ALA M	19	126.535	4.284	6.871	1.00 18.34
MOTA	8343	CA	ALA M	19	125.886	3.003	7.092	1.00 14.83
ATOM	8344	С	ALA M	19	124.377	3.140	6.929	1.00 12.81
ATOM	8345	0	ALA M	19	123.773	4.143	7.320	1.00 13.01
ATOM	8346	CB	ALA M	19	126.203	2.483	8.483	1.00 10.19
ATOM	8347	N	THR M	20	123.775	2.149	6.293	1.00 9.18
ATOM	8348	CA	THR M	20	122.339	2.148	6.154	1.00 7.01
ATOM	8349	C.	THR M	20	121.794	0.726	6.369	1.00 8.77
ATOM	8350	Ö	THR M	20	122.139	-0.221	5.665	1.00 11.20
	8351	СВ	THR M	20	121.929	2.707	4.808	1.00 2.46
MOTA	8352	OG1	THR M	20	121.378	1.665	4.006	1.00 6.02
ATOM	8353	CG2			123.109	3.318	4.134	1.00 8.06
MOTA			ILE M		120.946	0.595	7.381	1.00 12.82
ATOM	8354	N			120.320	-0.671	7.733	1.00 12.63
MOTA	8355	CA	ILE M		118.971	-0.749	7.033	1.00 12.09
MOTA	8356	С	ILE M		118.417	0.264	6.604	1.00 18.47
MOTA	8357	0	ILE M			-0.758	9.232	1.00 12.41
MOTA	8358	СВ	ILE M		120.033	-0.735	10.012	1.00 4.05
MOTA	8359	CG1			121.336		9.525	1.00 14.17
MOTA	8360	CG2			119.146	-1.976	11.260	1.00 9.89
MOTA	8361	CD1			121.171	0.037		1.00 5.03
MOTA	8362	N	SER M		118.413	-1.938	6.935	1.00 12.23
ATOM	8363	CA	SER M		117.138	-2.044	6.279	
MOTA	8364	С	SER M		116.210	-2.935	7.107	
ATOM	8365	0	SER M		116.641	-3.934	7.715	
ATOM	8366	CB	SER M	1 22	117.310	-2.646	4.912	1.00 11.67
ATOM	8367	OG	SER M	1 22	117.313	-4.050	5.080	1.00 18.43
MOTA	8368	N	CYS M	1 23	114.922	-2.598	7.090	1.00 15.49
MOTA	8369	CA	CYS N	1 23	113.950	-3.346	7.855	1.00 13.37
ATOM	8370	С	CYS N	1 23	112.924	-3.962	6.950	1.00 13.53
MOTA	8371	0	CYS N	1 23	112.744	-3.498	5.813	1.00 14.32
ATOM	8372	СВ	CYS N	1 23	113.232	-2.444	8.833	1.00 12.83
ATOM	8373	SG	CYS N		112.161	-3.480	9.837	1.00 2.00
ATOM	8374	N	ARG N		112.190	-4.953	7.459	1.00 11.58
ATOM	8375	CA	ARG N		111.218	-5.620	6.600	1.00 15.62
ATOM	8376	С	ARG N		109.910	-6.166	7.162	1.00 20.35
ATOM	8377	ō	ARG I		109.890	-7.108	7.963	1.00 21.64
ATOM	8378	СВ	ARG 1		111.918	-6.717	5.908	1.00 11.77
ATOM	8379	CG	ARG I		112.079	-6.459	4.507	1.00 15.25
ATOM	8380	CD	ARG I		111.714	-7.725	3.844	1.00 27.23
ATOM	8381	NE	ARG I		111.132	-7.336	2.602	1.00 32.68
ATOM	8382	CZ	ARG		111.822	-7.231	1.484	1.00 30.57
ATOM	8383		1 ARG		113.131	-7.509	1.493	1.00 13.49
ATOM	8384		2 ARG		111.192	-6.780	0.397	1.00 30.68
	8385	N	ALA		108.804	-5.626	6.661	1.00 18.15
ATOM		CA			107.512	-6.026	7.170	1.00 12.89
MOTA	8386	CA	ALA		106.962	-7.197	6.415	1.00 7.84
MOTA	8387				107.042	-7.237	5.188	1.00 4.28
MOTA	8388	0	ALA		107.042	-4.845	7.094	1.00 15.84
MOTA	8389	CB				-8.138	7.160	1.00 5.06
ATOM	8390		SER		106.393	-9.304	6.559	1.00 7.71
MOTA	8391				105.789	-9.304 -8.875	5.810	1.00 12.21
MOTA	8392		SER		104.572	-9.704	5.140	1.00 13.68
MOTA	8393		SER		103.961			1.00 13.00
ATOM	8394					-10.318	7.591	
ATOM	8395				105.154	-9.677	8.816	
ATOM	8396		GLN		104.233	-7.582	5.928	
MOTA	8397				103.106		5.200	
MOTA	8398	С	GLN	M 27	103.273	-5.473	5.123	1.00 10.47

MOTA	8399	0	GLN	M	27	104.075	-4.902	5.880	1.00 18.39
ATOM	8400	СВ	GLN	M	27	101.812	-7.279	5.897	1.00 22.49
ATOM	8401	CG	GLN		27	101.760	-6.692	7.295	1.00 27.12
ATOM	8402	CD	GLN		27	100.411	-6.940	7.920	1.00 29.55
ATOM	8403	OE1	GLN		27	100.172	-8.002	8.512	1.00 27.70
MOTA	8404	NE2	GLN		27	99.501	-5.974	7.761	1.00 32.65
	8405	N	ARG		28	102.556	-4.814	4.208	1.00 8.71
MOTA	8406	CA	ARG		28	102.687	-3.369	4.125	1.00 11.39
MOTA	8407	C	ARG		28	102.323	-2.757	5.501	1.00 14.38
MOTA	8408	o	ARG		28	101.526	-3.334	6.266	1.00 17.93
ATOM			ARG		28	101.770	-2.808	3.032	1.00 12.57
ATOM	8409	CB	ARG		28	102.310	-2.876	1.621	1.00 26.80
ATOM	8410	CG	ARG		28	101.284	-2.270	0.668	1.00 39.84
ATOM	8411	CD	ARG		28	101.655	-2.380	-0.752	1.00 53.32
MOTA	8412	NE			28	102.280	-1.428	-1.467	1.00 57.26
MOTA	8413	CZ	ARG		28	102.200	-0.264	-0.907	1.00 55.36
MOTA	8414	NH1					-1.635	-2.764	1.00 56.56
MOTA	8415	NH2			28	102.544		5.856	1.00 50.50
MOTA	8416	14	VAL		29	102.935	-1.631	7.098	1.00 2.00
ATOM	8417	CA	VAL		29	102.594	-1.006		1.00 2.00
MOTA	8418	С	VAL		29	102.702	0.463	6.813	
ATOM	8419	0	VAL		29	102.944	1.308	7.703	
ATOM	8420	CB	VAL		29	103.516	-1.388	8.223	1.00 2.00
ATOM	8421	CG1	VAL	M	29	103.365	-2.840	8.558	1.00 2.00
MOTA	8422	CG2	VAL	M	29	104.886	-1.090	7.853	1.00 8.21
ATOM	8423	N	SER	M	30	102.541	0.792	5.545	1.00 4.40
ATOM	8424	CA	SER	M	30	102.546	2.201	5.216	1.00 14.50
ATOM	8425	С	SER	M	30	101.238	2.456	4.475	1.00 12.90
ATOM	8426	0	SER	M	30	100.941	1.745	3.537	1.00 16.08
ATOM	8427	CB	SER	M	30	103.770	2.563	4.346	1.00 17.19
ATOM	8428	OG	SER	M	30	103.405	3.161	3.100	1.00 17.75
ATOM	8429	N	SER	M	31	100.439	3.436	4.877	1.00 8.56
ATOM	8430	CA	SER		31	99.200	3.662	4.136	1.00 11.30
ATOM	8431	C	SER		31	99.278	4.937	3.303	1.00 14.59
ATOM	8432	Ō	SER		31	100.330	5.314	2.882	1.00 23.56
ATOM	8433	СВ	SER		31	98.001	3.710	5.083	1.00 12.68
ATOM	8434	OG	SER		31	98.003	4.901	5.855	1.00 26.84
ATOM	8435	N	SER		32	98.200	5.671	3.124	1.00 16.53
ATOM	8436	CA	SER		32	98.274	6.821	2.246	1.00 12.11
ATOM	8437	C	SER		32	98.978	8.059	2.739	1.00 12.96
ATOM	8438	Ö	SER		32	99.220	8.973	1.963	1.00 17.39
ATOM	8439	СВ	SER		32	96.869	7.178	1.780	1.00 12.77
MOTA	8440	OG	SER		32	96.118	7.740	2.837	1.00 13.36
ATOM	8441	N	THE		33	99.307	8.156	4.005	1.00 15.10
ATOM	8442	CA	THE			100.003	9.391	4.389	1.00 20.02
	8443	C	THE		33	101.221	9.124	5.254	1.00 22.17
ATOM ATOM	8444	Ö	THE			102.185	9.901	5.254	1.00 24.12
	8445	СВ	THE			99.100	10.382	5.177	1.00 17.51
ATOM	8446		1 THE			97.713	10.145	4.900	1.00 27.54
MOTA						99.461	11.775	4.833	1.00 16.23
ATOM	8447	CG				101.140	8.044	6.027	1.00 19.68
ATOM	8448	N	TYF			102.210	7.665	6.911	1.00 14.57
ATOM	8449	CA				102.210	6.191	6.765	1.00 13.50
ATOM	8450	С	TYF					6.151	1.00 7.36
MOTA	8451		TYF			101.906		8.357	1.00 17.62
ATOM	8452		TY			101.812			
ATOM	8453		TYI			101.432		8 610	
MOTA	8454		1 TY			100.572		7.748	
ATOM	8455		2 TY			101.888		9.733	
ATOM	8456		1 TY			100.162		7.977	
ATOM	8457		2 TY			101.477		9.979	
MOTA	8458	CZ	TYI	R M	34	100.611	12.046	9.090	1.00 33.95

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MOTA	8459	ОН	TYR M	34	100.147	13.313	9.318	1.00 44.17
ATOM	8460	N	SER M	35	103.809	5.895	7.262	1.00 11.19
ATOM	8461	CA	SER M	35	104.324	4.540	7.252	1.00 10.13
ATOM	8462	С	SER M	35	104.529	4.331	8.734	1.00 7.72
ATOM	8463	Ō	SER M	35	105.158	5.146	9.420	1.00 6.14
ATOM	8464	CB	SER M	35	105.648	4.453	6.481	1.00 13.58
ATOM	8465	OG	SER M	35	105.557	4.952	5.142	1.00 22.78
ATOM	8466	N	TYR M	36	103.914	3.294	9.266	1.00 8.72
ATOM	8467	CA	TYR M	36	104.039	3.097	10.700	1.00 13.11
	8468	C	TYR M	36	105.272	2.316	11.161	1.00 13.32
ATOM ATOM	8469	ŏ	TYR M	36	105.187	1.254	11.790	1.00 10.95
ATOM	8470	СВ	TYR M	36	102.687	2.553	11.253	1.00 10.29
	8471	CG	TYR M	36	101.569	3.610	11.177	1.00 2.00
ATOM	8472	CD1		36	101.280	4.424	12.257	1.00 2.00
ATOM		CD2		36	100.910	3.868	9.976	1.00 2.00
ATOM	8473	CE1		36	100.393	5.459	12.139	1.00 2.00
MOTA	8474	CE2		36	100.021	4.906	9.855	1.00 2.00
ATOM	8475			36	99.768	5.703	10.931	1.00 2.00
ATOM	8476	CZ	TYR M	36	98.923	6.789	10.816	1.00 5.62
MOTA	8477	OH	TYR M		106.430	2.897	10.853	1.00 14.61
MOTA	8478	N	MET M	37	107.715	2.288	11.185	1.00 9.99
MOTA	8479	CA	MET M	37		3.257	11.975	1.00 8.78
MOTA	8480	C	MET M	37	108.559	4.463	11.730	1.00 9.75
MOTA	8481	0	MET M	37	108.513	1.925	9.893	1.00 8.59
ATOM	8482	CB	MET M	37	108.439	0.506	9.477	1.00 2.00
MOTA	8483	CG	MET M	37	108.282	-0.512	10.727	1.00 6.46
ATOM	8484	SD	MET M	37	109.070		9.910	1.00 7.23
MOTA	8485	CE	MET M	37	108.928	-2.060		1.00 9.39
ATOM	8486	N	HIS M	38	109.318	2.743	12.934 13.759	1.00 9.23
MOTA	8487	CA	HIS M	38	110.182	3.603		1.00 7.53
ATOM	8488	С	HIS M		111.457	2.869	14.061	1.00 7.33
ATOM	8489	0	HIS M		111.488	1.640	14.088 15.091	1.00 8.84
MOTA	8490	CB	HIS M		109.521	3.992	15.031	1.00 0.04
MOTA	8491	CG	HIS M		108.030	4.126		1.00 12.50
ATOM	8492		HIS M		107.415	5.280	14.575	1.00 12.55
MOTA	8493		2 HIS M		107.041	3.221	15.213 14.502	1.00 10.03
ATOM	8494		1 HIS M		106.110	5.077		1.00 14.44
ATOM	8495		2 HIS M		105.860	3.835	14.875	1.00 13.37
ATOM	8496	N	TRP M		112.506	3.633	14.302	1.00 7.71
MOTA	8497	CA	TRP M		113.795	3.040	14.565 15.889	1.00 7.71
ATOM	8498	Ç	TRP M		114.421	3.439		
ATOM	8499	0	TRP M		114.377	4.594	16.322	
ATOM	8500	CB	TRP M		114.757	3.438	13.464 12.090	1.00 7.42 1.00 2.00
MOTA	8501	CG	TRP M		114.417	3.041		
MOTA	8502		1 TRP M		113.690		11.180	1.00 2.00
MOTA	8503		2 TRP M		114.949	1.920	11.401	1.00 2.00
MOTA	8504		1 TRP M		113.754		9.944	1.00 2.89
ATOM	8505		2 TRP N		114.522	2.004	10.067	-
MOTA	8506				115.756		11.786	1.00 2.00
MOTA	8507		2 TRP N		114.886		9.116	1.00 10.88
MOTA	8508	CZ	3 TRP N		116.114		10.843	1.00 7.53
ATOM	8509	CH	2 TRP N	1 39	115.683		9.530	1.00 11.71
MOTA	8510	N	TYR N		115.074		16.509	1.00 4.66
ATOM	8511	CA	TYR 1	4 4 0	115.696		17.767	1.00 7.52
ATOM	8512	С	TYR 1	40	117.075		17.728	1.00 8.90
MOTA	8513	0	TYR 1	4 40	117.336		17.039	
MOTA	8514	CE	TYR 1	4 40	114.973		18.923	
MOTA	8515		TYR	4 40	113.476		18.958	
MOTA	8516	CI	1 TYR I	4 40	112.858		20.083	
ATOM	8517	CI	2 TYR 1	4 40	112.678			
MOTA	8518	CE	El TYR I	M 40	111.469	3.048	20.105	1.00 18.81

		~=0	m1/D 1/	4.0	1	11.289	2.163	17.862	1.00 17.22
MOTA	8519		TYR M	40		10.683	2.705	18.982	1.00 18.60
ATOM	8520	CZ	TYR M	40					1.00 11.37
MOTA	8521	OH	TYR M	40		09.300	2.846	18.995	-
MOTA	8522	N	GLN M	41		17.936	2.881	18.508	1.00 5.59
MOTA	8523	CA	GLN M	41		19.309	2.441	18.654	1.00 6.13
ATOM	8524	С	GLN M	41		19.386	2.049	20.114	1.00 3.93
ATOM	8525	0	GLN M	41	1	18.818	2.714	20.971	1.00 2.00
ATOM	8526	CB	GLN M	41	1	20.278	3.583	18.411	1.00 8.76
ATOM	8527	CG	GLN M	41	1	20.682	4.276	19.701	1.00 9.43
ATOM	8528	CD	GLN M	41	1	21.991	5.012	19.619	1.00 12.40
	8529	OE1	GLN M	41		22.747	4.859	18.659	1.00 18.64
MOTA		NE2	GLN M	41		22.272	5.822	20.633	1.00 6.88
ATOM	8530					20.096	0.988	20.429	1.00 7.33
ATOM	8531	N	GLN M	42		20.175	0.630	21.828	1.00 8.26
MOTA	8532	CA	GLN M	42					1.00 10.96
MOTA	8533	С	GLN M	42		.21.595	0.215	22.082	
MOTA	8534	0	GLN M	42		.22.167	-0.586	21.325	1.00 8.87
MOTA	8535	CB	GLN M	42		19.242	-0.527	22.155	1.00 12.09
ATOM	8536	CG	GLN M	42	1	19.695	-1.337	23.353	1.00 11.29
ATOM	8537	CD	GLN M	42	1	18.661	-2.346	23.816	1.00 10.86
ATOM	8538	OE1	GLN M	42	1	18.258	-3.287	23.082	1.00 7.65
ATOM	8539	NE2	GLN M	42	1	18.225	-2.157	25.049	1.00 4.66
MOTA	8540	И	LYS M	43		22.151	0.785	23.144	1.00 15.07
ATOM	8541	CA	LYS M	43		123.505	0.501	23.566	1.00 18.06
ATOM	8542	C	LYS M	43		123.462	-0.644	24.566	1.00 22.84
			LYS M	43		122.407	-0.990	25.098	1.00 23.00
MOTA	8543	O	LYS M	43		124.120	1.723	24.223	1.00 13.59
ATOM	8544	CB		43		124.120	2.952	23.365	1.00 12.50
ATOM	8545	CG	LYS M				3.001	22.408	1.00 20.23
ATOM	8546	CD	LYS M	43		125.219	4.390	22.311	1.00 25.24
ATOM	8547	CE	LYS M	43		125.837		21.719	1.00 23.24
ATOM	8548	NZ	LYS M	43		124.901	5.379		1.00 32.07
ATOM	8549	N	PRO M	44		124.613	-1.267	24.812	
ATOM	8550	CA	PRO M			124.631	-2.367	25.769	1.00 24.78
MOTA	8551	С	PRO M	44		124.286	-1.764	27.118	1.00 22.14
ATOM	8552	0	PRO M			124.692	-0.625	27.413	1.00 14.74
ATOM	8553	CB	PRO M	44		126.078	-2.865	25.728	1.00 28.44
ATOM	8554	CG	PRO M	44		126.652	-2.286	24.465	1.00 32.45
ATOM	8555	CD	PRO M	44	:	125.942	-0.996	24.248	1.00 27.98
ATOM	8556	N	GLY M	45		123.534	-2.523	27.916	1.00 20.49
MOTA	8557	CA	GLY M	45		123.151	-2.066	29.242	1.00 25.43
ATOM	8558	С	GLY M	45		122.035	-1.034	29.304	1.00 27.22
ATOM	8559	0	GLY M	45		121.348	-0.885	30.305	1.00 32.30
ATOM	8560	N	GLN M			121.831	-0.314	28.222	1.00 27.14
ATOM	8561	CA	GLN M			120.782	0.680	28.198	1.00 25.14
ATOM	8562	C	GLN M			119.523	0.253	27.409	1.00 21.92
MOTA	8563	ō	GLN M			119.550	-0.687	26.607	1.00 22.89
MOTA	8564	СB	GLN M			121.357	1.948	27.587	1.00 33.75
		CG	GLN M			122.862	2.110	27.776	1.00 41.27
ATOM	8565					123.277	3.576	27.935	1.00 44.14
ATOM	8566	CD	GLN M				4.375	26.988	1.00 46.74
MOTA	8567		GLN M			123.196	3.936	29.142	1.00 44.86
MOTA	8568		GLN M			123.711		27.584	1.00 19.62
ATOM	8569	N	PRO M			118.412	0.988		1.00 17.55
MOTA	8570	CA	PRO M			117.176	0.675	26.881	
ATOM	8571	С	PRO M			117.180	1.423	25.539	1.00 15.28
MOTA	8572	0	PRO N			117.890	2.399	25.386	1.00 19.91
ATOM	8573	CB	PRO N			116.115	1.223	27.814	1.00 19.39
MOTA	8574	CG	PRO N	1 47		116.774	2.318	28.570	1.00 9.02
ATOM	8575	CD	PRO N			118.246	2.205	28.394	1.00 17.46
ATOM	8576	N	PRO N			116.350	1.010	24.574	1.00 8.67
ATOM	8577	CA	PRO N			116.315	1.683	23.267	1.00 8.73
ATOM	8578	С	PRO N			116.182	3.183	23.359	1.00 6.86
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ATOM	8579	0	PRO M	48	115.719	3.647	24.375	1.00	15.29
ATOM	8580	СВ	PRO M		115.126	1.046	22.573	1.00	4.77
					115.063	-0.335	23.209	1.00	4.97
ATOM	8581	CG	PRO M						
MOTA	8582	CD	PRO M		115.393	-0.099	24.647	1.00	6.83
MOTA	8583	N	LYS M		116.647	3.927	22.347	1.00	3.61
ATOM	8584	CA	LYS M	1 49	116.543	5.397	22.294	1.00	4.64
ATOM	8585	С	LYS M	1 49	115.884	5.675	20.961	1.00	6.92
ATOM	8586	0	LYS M	i 49	116.335	5.192	19.919	1.00	11.52
ATOM	8587	СВ	LYS M		117.925	6.049	22.311	1.00	4.95
			LYS M		117.961	7.556	22.529		12.97
ATOM	8588	CG							
ATOM	8589	CD	LYS M		117.572	8.337	21.278		25.92
ATOM	8590	CE	LYS M		116.637	9.583	21.586		32.21
ATOM	8591	ΝZ	LYS M	1 49	115.141	9.294	21.508	1.00	28.32
ATOM	8592	N	LEU M	50	114.793	6.421	20.968	1.00	7.23
MOTA	8593	CA	LEU M	50	114.107	6.661	19.701	1.00	7.55
ATOM	8594	С	LEU N	50	114.839	7.563	18.765	1.00	2.25
ATOM	8595	ō	LEU N		115.188	8.672	19.123	1.00	2.00
	8596	СВ	LEU N		112.690	7.237	19.914		10.30
ATOM					112.013				6.98
ATOM	8597	CG	LEU N			7.945	18.713	1.00	
MOTA	8598	CD1	LEU N		111.957	7.110	17.478	1.00	9.32
ATOM	8599	CD2	LEU N		110.663	8.208	19.020		13.45
MOTA	8600	N	TEA V		115.031	7.127	17.531	1.00	2.00
MOTA	8601	CA	LEU N	1 51	115.716	8.011	16.607	1.00	2.04
ATOM	8602	С	LEU N	1 51	114.762	8.498	15.564	1.00	2.00
ATOM	8603	0	LEU N	1 51	114.642	9.689	15.293	1.00	2.00
ATOM	8604	CB	LEU N	1 51	116.897	7.297	15.913	1.00	7.98
ATOM	8605	CG	LEU N		118,143	7.088	16.778	1.00	7.68
ATOM	8606	CD1	LEU N		118.629	5.617	16.760	1.00	2.00
ATOM	8607	CD2	LEU N		119.161	8.079	16.333	1.00	7.39
ATOM	8608	N	ILE N		114.069	7.579	14.941	1.00	2.00
	8609	CA	ILE N		113.218	8.064	13.910	1.00	3.43
ATOM									9.36
ATOM	8610	С	ILE N			. 7.434	14.085	1.00	
ATOM	8611	0	ILE N		111.823	6.232	14.374	1.00	8.68
MOTA	8612	СВ	ILE N		113.820	7.693	12.531		10.52
MOTA	8613	CG1	ILE N		115.040	8.559	12.251		10.69
MOTA	8614	CG2	ILE N		112.786	7.840	11.382		11.36
MOTA	8615	CD1	ILE N	1 52	116.065	7.821	11.411		12.58
ATOM	8616	N	LYS N	1 53	110.846	8.253	13.862	1.00	13.17
ATOM	8617	CA	LYS N	1 53	109.436	7.853	13.957	1.00	10.74
ATOM	8618	С	LYS N	4 53	108.696	8.070	12.649	1.00	9.10
ATOM	8619	0	LYS 1		108.913	9.051	11.922	1.00	7.06
ATOM	8620	СВ	LYS N		108.714	8.645	15.022	1.00	11.70
ATOM	8621	CG	LYS 1		108.564	10.084	14.677		17.06
ATOM	8622	CD	LYS N		108.943	10.911	15.892		26.13
						11.022	16.886		27.11
ATOM	8623	CE	LYS 1		107.791				33.26
ATOM	8624	NZ	LYS 1		107.710	12.411	17.422		
MOTA	8625	N	TYR I		107.782	7.153	12.381	1.00	7.72
ATOM	8626	CA	TYR 1		107.003	7.187	11.155	1.00	7.77
MOTA	8627	С	TYR 1	1 54	107.920	7.152	9.964	1.00	7.75
MOTA	8628	0	TYR 1	1 54	107.876	8.043	9.130	1.00	7.75
MOTA	8629	CB	TYR 1	1 54	106.112	8.425	11.071	1.00	3.61
MOTA	8630	CG	TYR 1		105.183	8.514	12.249	1.00	10.75
ATOM	8631	CD1	TYR 1	4 54	105.631	9.015	13.462	1.00	12.56
ATOM	8632	CD2	TYR I		103.906	7.953	12.214	1.00	11.44
ATOM	8633	CE1			104.836	8.942	14.615	1.00	
ATOM	8634	CE2	TYR I		103.102	7.879	13.372	1.00	2.95
ATOM	8635					8.377	14.565	1.00	2.83
		CZ	TYR		103.581			1.00	
ATOM	8636	OH	TYRI		102.830	8.405	15.734	1.00	5.36
MOTA	8637	N	ALA I		108.775	6.136	9.935		
MOTA	8638	CA	ALA I	4 55	109.675	5.887	8.836	1.00	10.05

		_	~ ~ ~ · · ·	c 6	110.666	6.956	8.434	1.00 11.85
ATOM	8639		ALA M	55 55	111.746	6.597	7.946	1.00 15.81
ATOM	8640	-	ALA M		108.882	5.497	7.624	1.00 14.01
MOTA	8641		ALA M	55	110.352	8.236	8.642	1.00 2.00
MOTA	8642	N	SER M	56	111.253	9.240	8.183	1.00 2.00
MOTA	8643	CA	SER M	56		10.507	8.956	1.00 2.00
MOTA	8644	С	SER M	56	111.423	11.393	8.477	1.00 7.76
MOTA	8645	0	SER M	56	112.114		6.781	1.00 2.00
MOTA	8646	СВ	SER M	56	110.839	9.589	6.710	1.00 2.00
ATOM	8647	OG	SER M	56	110.360	10.918		1.00 2.00
ATOM	8648	N	ASN M	57	110.780	10.659	10.104	1.00 6.27
MOTA	8649	CA	ASN M	57	110.989	11.896		1.00 6.69
ATOM	8650	С	ASN M	57	111.850	11.701	12.043	1.00 7.05
MOTA	8651	0	ASN M	57	111.631	10.782	12.847	1.00 7.03
MOTA	8652	CB	ASN M	57	109.675	12.547	11.238	
MOTA	8653	CG	ASN M	57	108.551	12.126	10.385	
MOTA	8654	OD1	ASN M		108.398	12.562	9.227	
MOTA	8655	ND2	ASN M		107.719	11.264	10.947	1.00 32.55
MOTA	8656	N	LEU M	58	112.853	12.568	12.159	1.00 6.95
ATOM	8657	CA	LEU M	58	113.779	12.480	13.273	1.00 7.15
MOTA	8658	С	LEU M	58	113.069	12.773	14.559	1.00 5.99
ATOM	8659	0	LEU M	58	112.331	13.739	14.650	1.00 11.23
ATOM	8660	CB	LEU M	58	114.921	13.489	13.116	1.00 8.54
ATOM	8661	CG	LEU M	58	116.270	12.938	12.642	1.00 11.26
MOTA	8662	CD1	LEU M	58	116.601	13.556	11.278	1.00 11.49
ATOM	8663	CD2	LEU M	58	117.358	13.226	13.653	1.00 4.13
ATOM	8664	N	GLU M	59	113.300	11.965	15.572	1.00 4.72
ATOM	8665	CA	GLU M	59	112.684	12.237	16.860	1.00 6.78
ATOM	8666	С	GLU M	59	113.320	13.536	17.361	1.00 5.42
ATOM	8667	0	GLU M	59	114.322	13.955	16.868	1.00 9.42
ATOM	8668	CB	GLU N	1 59	112.999	11.107	17.824	1.00 9.93
ATOM	8669	CG	GLU N	i 59	112.755	11.457	19.238	1.00 16.11
MOTA	8670	CD	GLU N	1 59	111316	11.720	19.506	1.00 16.02
ATOM	8671	OE1	GLU N	1 59	110.917	11.497	20.661	1.00 27.36
ATOM	8672	OE2	GLU N	1 59	110.590	12.143	18.582	1.00 15.70
MOTA	8673	И	SER N	1 60	112.774	14.200	18.338	1.00 10.44
MOTA	8674	CA	SER N	1 60	113.440	15.418	18.749	1.00 19.21
MOTA	8675	С	SER 1	4 60	114.752	15.129	19.473	1.00 19.76
MOTA	8676	0	SER 1	4 60	114.803	14.288	20.380	1.00 23.78
ATOM	8677	CB	SER 1	4 60	112.527	16.213	19.653	1.00 28.85
ATOM	8678	OG	SER 1	4 60	112.692	17.597	19.428	1.00 40.92
ATOM	8679	N	GLY 1	4 61	115.806	15.828	19.061	1.00 20.00
ATOM	8680	CA	GLY I	4 61	117.114	15.646	19.660	1.00 21.65
ATOM	8681	С	GLY I	M 61	118.030	14.685	18.901	1.00 21.86
ATOM	8682	0	GLY I		119.239	14.661	19.122	1.00 26.21
ATOM	8683	N	VAL I	M 62	117.473	13.843	18.043	1.00 16.71
MOTA	8684	CA	VAL 1	M 62	118.313	12.947	17.304	1.00 12.08
MOTA	8685	С	VAL		119.087	13.834	16.386	1.00 9.64
ATOM	8686	0	VAL :		118.541	14.787	15.896	1.00 6.96
MOTA	8687	CB	VAL		117.496	11.965	16.507	1.00 13.65
ATOM	8688		l VAL		118.417	11.146	15.599	1.00 16.36
ATOM	8689	CG	2 VAL	м 62	116.779	11.020	17.488	1.00 18.35
ATOM	8690	N	PRO	м 63	120.389	13.563	16.198	1.00 10.14
MOTA	8691	CA	PRO		121.305	14.314	15.337	1.00 7.76
ATOM	8692	С	PRO	M 63	120.995	14.116	13.865	1.00 7.53
ATOM	8693		PRO	м 63	120.525	13.037	13.454	1.00 9.59
ATOM	8694	CB	PRO	м 63	122.673	13.757	15.703	1.00 10.56
ATOM	8695		PRO		122.448	13.041	17.035	
ATOM	8696				121.095	12.474	16.886	
ATOM	8697		ALA		121.290			
ATOM	8698		ALA	M 64	120.963	15.059	11.660	1.00 2.28

ATOM	8699	С	ALA N	1 64	121.573	13.981	10.799	1.00	5.04
ATOM	8700	Ō	ALA M		121.085	13.734	9.700	1.00	6.91
ATOM	8701	СВ	ALA M		121.170		11.058	1.00	2.00
ATOM	8702	N	ARG N	-	122.619		11.256	1.00	8.47
ATOM	8703	CA	ARG N		123.153		10.393	1.00	9.89
ATOM	8704	C	ARG N		122.047		10.207		13.84
ATOM	8705	0	ARG N		121.829		9.085		18.22
	8706	СВ	ARG N		124.378		10.974		11.25
ATOM			ARG N		124.910		12.309		14.77
MOTA	8707	CG			126.166		12.688		14.94
ATOM	8708	CD	ARG N		126.146		14.016	1.00	8.43
ATOM	8709	NE	ARG N				15.180	1.00	9.45
ATOM	8710	CZ	ARG N		125.971		15.237	1.00	8.90
ATOM	8711		ARG N		125.782			1.00	2.00
ATOM	8712		ARG N		126.028		16.307		
MOTA	8713	N	PHE N		121.342		11.305		13.65
ATOM	8714	CA	PHE N		120.265		11.307	1.00	9.21
MOTA	8715	С	PHE 1		119.147		10.429	1.00	5.41
ATOM	8716	0	PHE N		118.690		10.471	1.00	3.01
ATOM	8717	CB	PHE 1		119.749		12.693	1.00	9.59
ATOM	8718	CG	PHE N		120.728		13.566	1.00	6.78
ATOM	8719	CD1			120.929		13.458	1.00	2.00
ATOM	8720	CD2	PHE 1	M 66	121.443		14.516	1.00	4.56
ATOM	8721	CE1	PHE N	M 66	121.798		14.265	1.00	2.00
ATOM	8722	CE2	PHE N	M 66	122.336		15.345	1.00	2.00
ATOM	8723	CZ	PHE 1	M 66	122.51	7.869	15.224	1.00	5.64
ATOM	8724	N	SER 1	M 67	118.723	9.376	9.635	1.00	2.00
ATOM	8725	CA	SER 1	M 67	117.679	9.596	8.701	1.00	2.00
ATOM	8726	С	SER I	м 67	117.042	8.251	8.355	1.00	3.90
ATOM	8727	0	SER I	M 67	117.57	7.189	8.676	1.00	4.28
ATOM	8728	CB	SER I	M 67	118.27	5 10.241	7.471	1.00	2.00
ATOM	8729	OG	SER I	M 67	118.36	7 9.268	6.444	1.00	7.90
MOTA	8730	N	GLY 1	M 68	115.87	8.287	7.734	1.00	4.81
MOTA	8731	CA	GLY 1	M 68	115.23	7.042	7.362	1.00	4.75
ATOM	8732	С	GLY I	M 68	114.27	7.189	6.197	1.00	6.29
ATOM	8733	0	GLY I	м 68	113.76	8.276	5.920	1.00	5.28
ATOM	8734	N	SER I	M 69	114.08	6.101	5.467	1.00	4.26
ATOM	8735	CA	SER I	м 69	113.14	4 6.108	4.368	1.00	6.19
MOTA	8736	С	SER I	м 69	112.50	1 4.724	4.125	1.00	6.02
ATOM	8737	0	SER I	м 69	112.80	4 3.738	4.794	1.00	4.84
ATOM	8738	CB	SER I	M 69	113.82	6.601	3.098	1.00	8.68
ATOM	8739	OG	SER I	M 69	113.80	1 5.578	2.108	1.00	18.33
ATOM	8740	N	GLY 1		111.60		3.156	1.00	4.78
ATOM	8741	CA	GLY 1		110.94	5 3.403	2.894	1.00	9.98
ATOM	8742	С	GLY I		109.44	2 3.605	2.815	1.00	14.37
ATOM	8743	0	GLY :		108.91		2.925	1.00	18.71
ATOM	8744	N	SER I		108.74		2.638		10.81
ATOM	8745	CA	SER		107.30		2.538	1.00	9.03
ATOM	8746	С	SER		106.81		2.271		14.39
ATOM	8747	Ō	SER		107.55		1.763		16.50
ATOM	8748	CB	SER		106.91		1.415	1.00	
ATOM	8749	OG	SER		106.96		0.205		13.07
ATOM	8750	N	GLY		105.56		2.633		16.34
ATOM	8751	CA	GLY		105.02		2.418		11.17
ATOM	8752	C	GLY		105.72		3.280	1.00	
ATOM	8753	0	GLY		105.48		4.489	1.00	
ATOM	8754	N	THR		106.62		2.703	1.00	
	8755	CA	THR		107.27				11.64
ATOM ATOM	8756	C	THR		107.27				10.18
	8757	0	THR		109.32			1.00	
ATOM								1.00	
ATOM	8758	CB	THR	ri 13	107.04	4.142 ر	3.000	1.00	1.33

MOTA	8759	OG1	THR N	1	73	107.379	-4.844	1.681	1.00	
ATOM	8760		THR N		73	105.656	-5.075	3.177	1.00	15.95
			ASP N		74	109.364	-2.209	3.127	1.00	8.22
ATOM	8761	N					-2.025	3.230	1.00	4.15
MOTA	8762	CA	ASP N		74	110.804				2.00
ATOM	8763	С	ASP N	4	74	111.195	-0.660	3.714	1.00	
ATOM	8764	0	ASP N	4	74	110.747	0.349	3.201	1.00	2.17
ATOM	8765	CB	ASP N		74	111.459	-2.316	1.882	1.00	7.85
	8766	CG	ASP 1		74	111.427	-3.810	1.530	1.00	10.95
ATOM					74	112.134	-4.636	2.207	1.00	8.38
MOTA	8767		ASP 1				-4.137	0.574	1.00	7.26
ATOM	8768	OD2	ASP 1		74	110.673				2.44
MOTA	8769	N	PHE 1	M	75	112.050	-0.637	4.717	1.00	
MOTA	8770	CA	PHE I	Μ	75	112.477	0.621	5.286	1.00	9.64
ATOM	8771	С	PHE I	М	75	113.973	0.601	5.591		13.94
ATOM	8772	Ō	PHE I		75	114.574	-0.464	5.824	1.00	13.66
		СВ	PHE		75	111.676	0.914	6.576	1.00	9.87
ATOM	8773					110.210	1.029	6.339	1.00	7.55
MOTA-	8774	CG	PHE !		75			6.428	1.00	7.66
MOTA	8775	CD1			75	109.418	-0.101			
MOTA	8776	CD2	PHE :	M	75	109.658	2.217	5.830	1.00	3.87
ATOM	8777	CE1	PHE	M	75	108.098	-0.077	5.992	1.00	7.62
ATOM	8778	CE2	PHE	М	75	108.353	2.267	5.398	1.00	3.64
MOTA	8779	CZ	PHE		75	107.559	1.111	5.468	1.00	8.00
	8780	N	THR		76	114.567	1.792	5.578	1.00	13.01
MOTA						115.975	1.948	5.857	1.00	8.99
ATOM	8781	CA	THR		76		3.062	6.850		11.94
MOTA	8782	С	THR		76	116.132				13.85
ATOM	8783	0	THR	M	76	115.256	3.925	6.984		
MOTA	8784	CB	THR	М	76	116.747	2.325	4.593	1.00	7.51
ATOM	8785	OG1	THR	M	76	116.196	3.520	4.005	1.00	7.86
ATOM	8786	CG2			76	116.638	1.217	3.607	1.00	4.24
	8787	N	LEU		77	117.285	3.036	7.503	1.00	13.01
ATOM					77	117.706	4.006	8.503	1.00	8.38
MOTA	8788	CA	LEU				4.214	8.159	1.00	8.55
MOTA	8789	С	LEU		77	119.177				8.17
MOTA	8790	0	LEU		77	119.935	3.233	8.057	1.00	
MOTA	8791	CB	LEU	Μ	77	117.620	3.384	9.887	1.00	5.08
ATOM	8792	CG	LEU	М	77	118.180	4.170	11.065	1.00	2.00
ATOM	8793	CD:	LEU	М	77	119.507	3.686	11.441	1.00	2.00
ATOM	8794		LEU		77	118.201	5.577	10.727	1.00	2.00
ATOM	8795	N	THR		78	119.606	5.450	7.965	1.00	3.21
	8796	CA	THR		78	121.001	5.609	7.660	1.00	2.08
MOTA					78	121.713	6.810	8.244	1.00	2.00
MOTA	8797	C	THR				7.964	8.059	1.00	3.21
ATOM	8798	0	THR		78	121.333				7.17
MOTA	8799	СВ	THR		78	121.259	5.600	6.132	1.00	
MOTA	8800	OG:	1 THR	М	78	121.970	6.788	5.786	1.00	
ATOM	8801	CG	2 THR	М	78	119.968	5.578	5.331	1.00	
MOTA	8802	N	ILE	М	79	122.809	6.519	8.911	1.00	3.29
ATOM	8803	ÇA	ILE	М	79	123.645	7.563	9.477	1.00	6.90
ATOM	8804	C	ILE		79	124.474	8.109	8.293	1.00	6.75
		Ö	ILE		79	125.030	7.340	7.535	1.00	4.70
ATOM	8805						6.946	10.531	1.00	7.21
ATOM	8806				79	124.552			1.00	2.00
MOTA	8807				79	123.720		11.339		
MOTA	8808	CG	2 ILE	М	79	125.253		11.330	1.00	5.08
ATOM	8809	CD	1 ILE	М	79	124.358	5.434	12.595	1.00	2.00
ATOM	8810	N	SER	М	80	124.545	9.420	8.095		10.26
ATOM	8811				80	125.319		6.953	1.00	12.09
	8812		SER		80	126.845		7.082	1.00	16.68
ATOM						127.544		6.070		26.51
MOTA	8813		SER		80			6.671	1.00	
MOTA	8814					124.987				18.02
MOTA	8815					125.193		7.817		
MOTA	8816	N	SER	M	81	127.364		8.304		11.60
MOTA	8817	CA	SER	M	81	128.790	9.382	8.520	1.00	
ATOM	8818	C	SER			128.968	8.992	9.991	1.00	6.29

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ATOM	8819	0	SER M	81	128.964	9.829	10.913	1.00 2.40
ATOM	8820	CB	SER M	81	129.580	10.614	8.211	1.00 7.43
MOTA	8821	OG	SER M	81	129.277	11.560	9.217	1.00 26.01
ATOM	8822	N	VAL M	82	129.125	7.690	10.189	1.00 3.72
ATOM	8823	CA	VAL M	82	129.242	7.114	11.502	1.00 4.93
ATOM	8824	С	VAL M	82	130.150	7.863	12.448	1.00 10.84
ATOM	8825	0	VAL M	82	131.140	8.424	12.025	1.00 23.22
ATOM	8826	CB	VAL M	82	129.721	5.721	11.362	1.00 3.50
ATOM	8827	CG1	VAL M	82	129.962	5.126	12.733	1.00 11.33
ATOM	8828	CG2	VAL M	82	128.678	4.926	10.591	1.00 2.06
ATOM	8829	N	GLU M	83	129.806	7.915	13.725	1.00 9.43
ATOM	8830	CA	GLU M	83	130.648	8.597	14.702	1.00 8.78
ATOM	8831	С	GLU M	83	130.771	7.587	15.796	1.00 9.63
ATOM	8832	0	GLU M	83	129.924	6.715	15.901	1.00 13.96
ATOM	8833	СВ	GLU M		129.984	9.875	15.194	1.00 9.49
ATOM	8834	CG	GLU M		129.469	10.735	14.049	1.00 19.86
ATOM	8835	CD	GLU M		129.237	12.217	14.428	1.00 29.09
ATOM	8836	OE1	GLU M		129.168	12.560	15.645	1.00 31.39
ATOM	8837	OE2	GLU M		129.115	13.049	13.492	1.00 28.98
ATOM	8838	Ŋ	PRO M		131.839	7.647	16.600	1.00 11.39
ATOM	8839	CA	PRO M		131.984	6.663	17.671	1.00 13.57
ATOM	8840	С	PRO M		130.742	6.338	18.472	1.00 11.96
ATOM	8841	ō	PRO M		130.435	5.163	18.677	1.00 7.25
ATOM	8842	СВ	PRO M		133.102	7.234	18.522	1.00 13.84
ATOM	8843	CG	PRO M		133.931	7.958	17.565	1.00 13.87
ATOM	8844	CD	PRO M		132.989	8.557	16.559	1.00 13.62
ATOM	8845	N	GLU M		130.016	7.371	18.888	1.00 16.43
ATOM	8846	CA	GLU M		128.808	7.144	19.670	1.00 21.24
ATOM	8847	C	GLU M		127.781	6.309	18.938	1.00 18.24
ATOM	8848	Õ	GLU N		127.072	5.521	19.568	1.00 22.36
ATOM	8849	СВ	GLU N		128.147	8.456	20.162	1.00 27.87
ATOM	8850	CG	GLU N		128.055	9.637	19.211	1.00 36.49
ATOM	8851	CD	GLU N		127.163	10.786	19.771	1.00 45.23
ATOM	8852	OE1			126.960	11.807	19.059	1.00 48.20
ATOM	8853		GLU N		126.661	10.672	20.923	1.00 47.17
ATOM	8854	N	ASP N		127.738	6.430	17.616	1.00 9.74
ATOM	8855	CA	ASP N		126.769	5.686	16.828	1.00 2.88
ATOM	8856	С	ASP N	4 86	126.900	4.189	16.862	1.00 2.00
ATOM	8857	0	ASP 1	1 86	126.000	3.505	16.418	1.00 3.99
ATOM	8858	CB	ASP 1	4 86	126.813	6.092	15.365	1.00 2.00
ATOM	8859	CG	ASP 1	4 86	126.502	7.539	15.165	1.00 4.32
ATOM	8860	OD1	ASP 1		126.164	8.184	16.160	1.00 11.27
MOTA	8861	OD2	ASP I	4 86	126.596	8.057	14.034	1.00 9.02
ATOM	8862	N	PHE 1	4 87	128.034	3.651	17.270	1.00 6.97
ATOM	8863	CA	PHE I		128.121	2.199	17.289	1.00 15.07
ATOM	8864	С	PHE 1	M 87	127.191	1.663	18.354	1.00 16.66
ATOM	8865	0	PHE 1		127.279	2.030	19.547	1.00 13.41
ATOM	8866	СВ	PHE !		129.569	1.715	17.509	1.00 16.70
ATOM	8867	CG	PHE I	M 87	130.459	1.884	16.289	1.00 19.14
MOTA	8868	CD:	l PHE	M 87	131.429	2.905	16.256	1.00 14.11
ATOM	8869		PHE		130.259	1.095	15.153	1.00 11.31
ATOM	8870		1 PHE		132.153	3.139	15.126	1.00 14.38
ATOM	8871		2 PHE		130.983	1.323	14.023	1.00 19.69
ATOM	8872	CZ	PHE		131.935	2.352	13.997	1.00 18.99
ATOM	8873	N	ALA		126.275	0.812	17.904	1.00 14.69
ATOM	8874	CA	ALA		125.307	0.254	18.806	1.00 12.46
ATOM	8875	С	ALA		124.526	-0.770	18.037	1.00 13.41
ATOM	8876		ALA		124.941	-1.207		1.00 18.95
MOTA	8877	СВ	ALA		124.373	1.367		
ATOM	8878		THR		123.365		18.565	1.00 12.22
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						.00 .00	0.054	17.881	1.00	10.30
ATOM	8879	CA	THR M	_		122.509	-2.054			9.22
ATOM	8880	С	THR M			121.176	-1.333	17.589	1.00	
ATOM	8881	0	THR M	89		120.671	-0.588	18.436	1.00	5.52
ATOM	8882	CB	THR M	89		122.353	-3.283	18.683	1.00	5.88
ATOM	8883	OG1	THR M	89		123.258	-4.256	18.166		17.63
ATOM	8884	CG2	THR M	_		121.027	-3.828	18.510	1.00	9.50
ATOM	8885	N	TYR M			120.662	-1.494	16.362	1.00	7.49
	8886	CA	TYR M			119.428	-0.822	15.936	1.00	8.77
ATOM	-					118.223	-1.710	15.602	1.00	9.20
ATOM	8887	C	TYR M			118.332	-2.734	14.906	1.00	5.69
MOTA	8888	0	TYR M				0.059	14.714	1.00	8.75
MOTA	8889	CB	TYR M			119.710				8.65
MOTA	8890	CG	TYR M	-		120.727	1.133	14.944	1.00	6.78
MOTA	8891	CD1	TYR M			122.019	0.816	15.365	1.00	
MOTA	8892	CD2	TYR M	90		120.384	2.475	14.800	1.00	8.27
ATOM	8893	CE1	TYR M	90		122.941	1.806	15.646	1.00	8.16
ATOM	8894	CE2	TYR M	90		121.292	3.472	15.079	1.00	7.98
ATOM	8895	CZ	TYR M			122.559	3.134	15.502	1.00	8.62
ATOM	8896	OH	TYR N			123.408	4.154	15.799	1.00	13.04
	8897	N	TYR N			117.062	-1.283	16.096	1.00	8.75
MOTA	8898	CA	TYR N			115.820	-2.005	15.858	1.00	8.33
ATOM						114.854	-1.140	15.085	1.00	8.64
ATOM	8899	С	TYR N			114.814	0.091	15.259	1.00	7.61
MOTA	8900	0	TYR N							6.98
MOTA	8901	CB	TYR 1			115.161	-2.418	17.190	1.00	2.80
MOTA	8902	CG	TYR N			115.997	-3.326	18.085	1.00	
MOTA	8903	CD1	TYR 1	1 91		116.014	-4.719	17.885	1.00	2.00
ATOM	8904	CD2	TYR 1	4 91		116.785	-2.786	19.100	1.00	2.00
MOTA	8905	CE1	TYR 1	1 91		116.777	-5.529	18.652	1.00	2.00
ATOM	8906	CE2	TYR I	1 91		117.551	-3.590	19.881	1.00	2.00
ATOM	8907	CZ	TYR I	4 91		117.541	-4.973	19.653	1.00	2.00
ATOM	8908	OH	TYR I			118.280	-5.796	20.466	1.00	2.39
ATOM	8909	N	CYS I			114.139	-1.779	14.169	1.00	7.58
ATOM	8910	CA	CYS			113.109	-1.073	13.426	1.00	12.71
ATOM	8911	C	CYS			111.907	-1.682	14.149	1.00	17.64
		o	CYS			112.025	-2.815	14.677		14.38
ATOM	8912					113.097	-1.447	11.927	1.00	4.07
MOTA	8913	CB	CYS			112.952	-3.229	11.708	1.00	8.83
ATOM	8914	SG	CYS				-0.917	14.226		21.26
ATOM	8915	N	GLN I			110.798				16.35
MOTA	8916	CA	GLN 1			109.542	-1.380	14.846		
ATOM	8917	С	GLN :			108.326	-0.622	14.364		12.27
ATOM	8918	0	GLN :			108.319	0.618	14.387	1.00	5.97
ATOM	8919	CB	GLN	м 93		109.568	-1.280	16.360		15.62
MOTA	8920	CG	GLN	м 93		108.158	-1.196	16.958	1.00	
MOTA	8921	CD	GLN	м 93		107.844	0.219	17.487	1.00	
MOTA	8922	OE1	GLN	м 93		106.909	0.425	18.269	1.00	3.28
MOTA	8923	NE2	GLN	м 93		108.647	1.191	17.053	1.00	14.04
ATOM	8924	N	HIS			107.296	-1.386	13.968	1.00	10.42
ATOM	8925	CA	HIS			106.047	-0.815	13.468	1.00	8.13
ATOM	8926	C	HIS			105.059	-0.450	14.592	1.00	10.96
ATOM	8927	Ö	HIS			105.366	-0.493	15.810		5.80
						105.359	-1.771	12.502	1.00	
MOTA	8928	. CB	HIS				-2.866	13.184		17.87
MOTA	8929	CG	HIS			104.612		12.540		26.23
MOTA	8930	ND.				103.674	-3.641			17.96
MOTA	8931		2 HIS			104.696	-3.351	14.451		
MOTA	8932		l HIS			103.213	-4.562	13.375		24.46
MOTA	8933	NE	2 HIS			103.818	-4.402	14.542		17.68
ATOM	8934	N	SER	M 95	,	103.858	-0.096	14.146	1.00	
ATOM	8935	CA	SER		,	102.776			1.00	
ATOM	8936	С	SER		,	101.561	0.293	14.093	1.00	
ATOM	8937	ō	SER			100.684	1.136		1.00	
ATOM	8938	СВ	SER			103.049			1.00	2.00

ATOM	8939	OG	SER M	95	102.940	2.634	14.443	1.00	2.00
ATOM	8940	N	TRP M	96	101.530	-0.698	13.234	1.00	8.02
ATOM	8941	CA	TRP M	96	100.417	-0.832	12.318	1.00	12.77
ATOM	8942	C	TRP M	96	99.216	-1.439	13.022	1.00	14.73
ATOM	8943	ō	TRP M	96	98.055	-1.149	12.679	1.00	
ATOM	8944	СВ	TRP M	96	100.802	-1.757	11.192	1.00	9.13
ATOM	8945	CG	TRP M	96	99.797	-1.842	10.137	1.00	2.00
ATOM	8946	CD1	TRP M	96	99.038	-2.921	9.832	1.00	2.00
ATOM	8947	CD1	TRP M	96	99.535	-0.866	9.131	1.00	
									2.00
ATOM	8948	NE1	TRP M	96	98.318	-2.685	8.694	1.00	2.07
MOTA	8949	CE2	TRP M	96	98.616	-1.431	8.235	1.00	2.00
ATOM	8950	CE3	TRP M	96	99.991	0.435	8.901	1.00	2.00
ATOM	8951	CZ2	TRP M	96	98.147	-0.762	7.125	1.00	2.00
ATOM	8952	CZ3	TRP M	96	99.519	1.107	7.784	1.00	5.11
ATOM	8953	CH2	TRP M	96	98.609	0.500	6.910	1.00	2.15
MOTĄ	8954	N	GLU M	97	99.511	-2.289	13.997	1.00	7.37
ATOM	8955	CA	GLU M	97	98.483	-2.959	14.733	1.00	4.65
ATOM	8956	С	GLU M	97	98.935	-3.504	16.081	1.00	6.12
ATOM	8957	0	GLU M	97	100.061	-3.259	16.529	1.00	10.44
ATOM	8958	CB	GLU M	97	97.924	-4.044	13.847	1.00	5.39
MOTA	8959	CG	GLU M	97	98.527	-5.378	13.996	1.00	7.70
ATOM	8960	CD	GLU M	97	98.097	-6.274	12.820	1.00	22.66
MOTA	8961	OE1	GLU M	97	97.299	-5.787	11.971	1.00	27.27
ATOM	8962	OE2	GLU M	97	98.545	-7.452	12.726	1.00	23.83
MOTA	8963	N	ILE M	98	98.033	-4.142	16.810	1.00	5.08
ATOM	8964	CA	ILE M	98	98.472	-4.704	18.073	1.00	5.02
MOTA	8965	С	ILE M	98	98.783	-6.121	17.722	1.00	7.43
MOTA	8966	0	ILE M	98	98.012	-6.706	16.985	1.00	14.75
MOTA	8967	CB	ILE M	98	97.393	-4.712	19.095	1.00	2.00
ATOM	8968	CG1	ILE M	98	97.174	-3.298	19.579	1.00	7.46
ATOM	8969	CG2	ILE M	98	97.804	-5.529	20.253	1.00	2.00
ATOM	8970	CD1	ILE M	98	96.744	-3.187	21.028	1.00	19.30
ATOM	8971	N	PRO M	99	99.936	-6.676	18.174	1.00	5.62
ATOM	8972	CA	PRO M	99	100.965	-6.021	18.995	1.00	3.67
MOTA	8973	С	PRO M	99	102.081	-5.359	18.200	1.00	5.10
MOTA	8974	0	PRO M	99	102.463	-5.822	17.133	1.00	5.71
MOTA	8975	CB	PRO M	99	101.528	-7.163	19.805	1.00	2.00
MOTA	8976	CG	PŖO M	99	101.464	-8.327	18.801	1.00	2.00
ATOM	8977	CD	PRO M	99	100.279	-8.087	17.913	1.00	2.00
ATOM	8978	N	PRO M	100	102.607	-4.244	18.695	1.00	6.38
ATOM	8979	CA	PRO M	100	103.682	-3.684	17.910	1.00	6.46
MOTA	8980	С	PRO M	100	104.761	-4.764	18.083	1.00	7.40
MOTA	8981	0	PRO M	100	104.860	-5.393	19.148	1.00	2.00
ATOM	8982	CB	PRO M	100	104.037	-2.414	18.677	1.00	7.29
ATOM	8983	CG	PRO M		103.775	-2.733	20.003	1.00	5.27
ATOM	8984	CD	PRO M	100	102.422	-3.452	19.905	1.00	11.02
ATOM	8985	N	THR M	101	105.583	-4.940	17.050		12.15
ATOM	8986	CA	THR M	101	106.662	-5.922	17.062	1.00	5.99
ATOM	8987	С	THR M		107.974	-5.337	16.534	1.00	8.91
MOTA	8988	0	THR M		108.007	-4.444	15.668	1.00	6.95
MOTA	8989	CB	THR M		106.273	-7.076	16.278	1.00	2.05
ATOM	8990	OG1	THR M		105.933	-6.657	14.938	1.00	2.29
ATOM	8991	CG2	THR M		105.132	-7.704	16.993	1.00	2.00
ATOM	8992	N	PHE M		109.065	-5.790	17.135		11.73
ATOM	8993	CA	PHE M		110.376	-5.307	16.756		13.80
ATOM	8994	C	PHE M		111.106	-6.227	15.761		14.04
ATOM	8995	0	PHE M		110.802	-7.439	15.671		11.58
ATOM	8996	CB	PHE M		111.219	-5.112	18.026	1.00	
ATOM	8997	CG	PHE M		110.703	-4.032	18.968	1.00	7.14
ATOM	8998		PHE M		109.874	-4.358	20.012	1.00	2.00
					103.0.4		20.012		

								10 001	1.00	3.72
MOTA	8999	CD2	PHE M	102	111.3		-2.741 -3.421	18.891 20.970	1.00	5.68
ATOM	9000	CEl	PHE M	102	110.8		-1.794	19.857	1.00	7.33
MOTA	9001		PHE M	102	110.0		-2.138	20.900	1.00	5.22
ATOM	9002	CZ	GLY M		112.0		-5.613	15.004	1.00	13.40
MOTA	9003	N CA	GLY M	103	112.		-6.318	14.042	1.00	3.30
MOTA MOTA	9004 9005	C	GLY M	103	113.		-7.095	14.856	1.00	3.04
MOTA	9006	ŏ	GLY M	103	114.		-6.889	16.062	1.00	5.12
ATOM	9007	N	GLY M	104	114.	658	-7.977	14.219	1.00	4.86
ATOM	9008	CA	GLY M	104	115.	621	-8.761	14.966	1.00	4.76
ATOM	9009	С	GLY M	104	116.		-7.973	15.522	1.00	3.78
ATOM	9010	0	GLY M	104	117.		-8.419	16.459	1.00	2.00
MOTA	9011	N	GLY M		117.		-6.828	14.906	1.00 1.00	6.40 6.54
MOTA	9012	CA	GLY M		118.		-5.993	15.340	1.00	9.36
MOTA	9013	С	GLY M	105	119.		-6.117	14.368 13.627	1.00	6.97
ATOM	9014	0	GLY M	105	119.		-7.101 -5.097	14.359	1.00	7.57
MOTA	9015	N	THR M	106	120. 121.		-5.093	13.521	1.00	2.83
MOTA	9016	CA	THR M		122.		-4.447	14.403	1.00	5.73
MOTA	9017	С О	THR M		122.		-3.401	14.987	1.00	5.08
ATOM ATOM	9018 9019	CB	THR M		121.		-4.247	12.312	1.00	2.00
ATOM	9020	OG1			120.		-5.055	11.275	1.00	5.69
ATOM	9021	CG2			122.		-3.713	11.847	1.00	7.05
ATOM	9022	N	LYS M		123.	548	-5.080	14.521	1.00	5.89
ATOM	9023	CA	LYS M		124.	603	-4.545	15.356		3.89
ATOM	9024	С	LYS M	107	125.	401	-3.699	14.402	1.00	7.31
ATOM	9025	0	LYS M		125.		-4.123	13.274		11.41
MOTA	9026	CB	LYS M		125.		-5.658	15.877	1.00	3.90
ATOM	9027	CG	LYS M		126.		-5.143	16.537	1.00	6.98
ATOM	9028	CD	LYS M		127.		-6.063	17.654	1.00	2.00
ATOM	9029	CE	LYS M		128.		-6.699	17.430 18.757	1.00 1.00	
MOTA	9030	ΝZ	LYS M		129		-6.757	14.819	1.00	
MOTA	9031	N	LEU M		125		-2.497 -1.630	13.977	1.00	7.60
MOTA	9032	CA	LEU M			.530 .944	-1.030	14.511		10.87
ATOM	9033	С	LEU M			399	-0.882	15.300		14.97
ATOM	9034	O CB	LEU M			.067	-0.181	14.060	1.00	6.12
ATOM ATOM	9035 9036	CG	LEU N			.764	0.663	12.975	1.00	10.93
MOTA	9037	CD1				394	0.081	11.599	1.00	8.59
ATOM	9038	CD2				.376	2.145	13.039	1.00	7.50
ATOM	9039	N	GLU N		128	.623	-2.796	14.051	1.00	9.84
MOTA	9040	CA	GLU N		129	.992	-3.131	14.429	1.00	9.86
ATOM	9041	С	GLU N			.025	-2.188	13.799	1.00	
MOTA	9042	0				.744	-1.535	12.782		8.57
ATOM	9043	CB	GLU 1			.276	-4.566	14.011	1.00	
ATOM	9044	CG		4 109		.324	-5.279	14.816	1.00	
ATOM	9045	CD		4 109		.100	-6.185	13.890		11.55
ATOM	9046		1 GLU 1			.382	-5.703	12.789		14.93 12.89
ATOM	_9047	OE	2 GLU 1			.416		14.195		10.68
ATOM	9048	N		м 110		.206		14.429 13.992	1.00	
MOTA	9049			M 110		.340		12.988	1.00	
MOTA	9050			M 110	. 134				1.00	
MOTA	9051			M 110		.761				
ATOM	9052			M 110		.245				
ATOM	9053		1 ILE	M 110 M 110		.312				
MOTA	9054			M 110 M 110		.262				
ATOM	9055 9056			M 110 M 111		.325	_			
MOTA MOTA	9050			M 111 M 111		.166				
ATOM	9058			M 111		5.580				
AT OF	2020	_	~10							

ATOM	9059	0	LYS M 111	136.954	-1.224	11.928	1.00 2.00
ATOM	9060	CB	LYS M 111	135.091	-1.578	9.321	1.00 6.50
			LYS M 111	134.968	-2.527	8.037	1.00 13.10
MOTA	9061	CG		-			1.00 20.16
ATOM	9062	CD	LYS M 111	134.763	-1.772	6.616	
MOTA	9063	CE	LYS M 111	133.247	-1.362	6.174	1.00 23.60
ATOM	9064	NZ	LYS M 111	132.809	-1.055	4.679	1.00 2.00
ATOM	9065	N	ARG M 112	137.374	-3.185	10.962	1.00 8.42
	9066	CA	ARG M 112	138.775	-3.224	11.389	1.00 13.38
ATOM				139.351	-4.460	10.675	1.00 17.74
ATOM	9067	С	ARG M 112				1.00 21.23
ATOM	9068	0	ARG M 112	138.649	-5.458	10.530	
ATOM	9069	CB	ARG M 112	138.888	-3.354	12.898	1.00 2.00
ATOM	9070	CG	ARG M 112	138.347	-4.632	13.333	1.00 5.67
ATOM	9071	CD	ARG M 112	139.437	-5.583	13.491	1.00 10.57
	9072	ŅE	ARG M 112	140.359	-5.195	14.554	1.00 13.92
MOTA	•		ARG M 112	141.679	-5.191	14.396	1.00 10.77
MOTA	9073	CZ				13.225	1.00 7.67
ATOM	9074		ARG M 112	142.186	-5.547		
ATOM	9075	NH2	ARG M 112	142.487	-4.894	15.412	1.00 6.47
ATOM	9076	N	THR M 113	140.602	-4.391	10.208	1.00 19.61
ATOM	9077	CA	THR M 113	141.201	-5.506	9.458	1.00 12.86
ATOM	9078	С	THR M 113	141.185	-6.764	10.226	1.00 3.93
		Ö	THR M 113	141.286	-6.734	11.446	1.00 2.00
MOTA	9079				-5.266	9.079	1.00 14.54
MOTA	9080	CB	THR M 113	142.646			1.00 23.60
MOTA	9081	OG1		143.388	-4.999	10.272	
ATOM	9082	CG2	THR M 113	142.761	-4.085	8.099	1.00 14.88
MOTA	9083	N	VAL M 114	141.051	-7.856	9.479	1.00 2.18
ATOM	9084	CA	VAL M 114	140.994	-9.180	10.032	1.00 2.00
ATOM	9085		VAL M 114	142.094	-9.355	11.036	1.00 3.22
	9086	c-o	VAL M 114	142.986	-8.535	11.074	1.00 14.17
MOTA				141.130		8.982	1.00 2.00
MOTA	9087	СВ	VAL M 114				
MOTA	9088	CG1		141.422		9.625	
MOTA	9089	CG2	VAL M 114	139.859		8.150	1.00 2.00
MOTA	9090	N	ALA M 115	142.018		11.893	1.00 2.00
ATOM	9091	CA	ALA M 115	143.062	-10.577	12.887	1.00 2.00
ATOM	9092	C	ALA M 115	142.862	-11.980	13.353	1.00 5.33
MOTA	9093	ō	ALA M 115	141.781		13.812	1.00 14.69
		СВ	ALA M 115		-9.638	14.041	1.00 2.00
MOTA	9094			143.869		13.205	1.00 7.39
ATOM	9095	N	ALA M 116				1.00 4.49
ATOM	9096	CA	ALA M 116	143.711		13.638	
ATOM	9097	С	ALA M 116	143.688		15.133	1.00 2.00
ATOM	9098	0	ALA M 116	144.211		15.808	1.00 6.08
MOTA	9099	СВ	ALA M 116	144.790	-15.085	13.097	1.00 4.06
ATOM	9100	N	PRO M 117	143.023	-15.285	15.681	1.00 2.11
ATOM	9101	CA	PRO M 117		-15.276	17.124	1.00 5.21
	9102	C	PRO M 117		-16.048	17.611	1.00 6.07
ATOM					-16.908	16.896	1.00 9.32
MOTA	9103	0	PRO M 117			17.463	1.00 8.47
ATOM	9104	CB	PRO M 117		-15.998		
MOTA	9105	CG	PRO M 117		-17.097	16.421	
MOTA	9106	CD	PRO M 117		-16.377	15.163	1.00 3.62
MOTA	9107	N	SER M 118	144.638	-15.758	18.831	1.00~ 5.48
ATOM	9108	CA	SER M 118	145,702	-16.519	19.460	1.00 9.95
	9109		SER M 118		-17.410	20.503	1.00 8.96
ATOM			SER M 118		-16.920	21.539	1.00 14.05
ATOM	9110	0				20.171	1.00 13.77
ATOM	9111	CB	SER M 118		-15.608		1.00 25.53
ATOM	9112	OG	SER M 118		-14.532	20.886	
ATOM	9113	N	VAL M 119		-18.707	20.259	1.00 4.92
ATOM	9114	CA	VAL M 119	144.275	-19.591	21.205	1.00 11.76
ATOM	9115		VAL M 119		-20.125	22.308	1.00 17.72
ATOM	9116		VAL M 119		-20.254	22.117	1.00 23.37
	9117				-20.753	20.478	1.00 11.25
MOTA			1 VAL M 119		-20.325	19.070	
MOTA	9118	CG	* AVD 14 TTA	143.300	20.323	10.0.0	

MOTA	9119	CG2	VAL M 1	19	144.537	-21.936	20.508	1.00 12.20
ATOM	9120	N	PHE M 1		144.618		23.475	1.00 23.19
	9121	CA	PHE M 1		145.381		24.614	1.00 27.08
MOTA		C	PHE M 1		144.457		25.375	1.00 27.14
ATOM	9122		PHE M 1		143.345		25.682	1.00 31.51
ATOM	9123	0			145.815		25.592	1.00 25.21
MOTA	9124	CB	PHE M 1		146.352		24.949	1.00 23.21
MOTA	9125	CG	PHE M 1		140.332		25.037	1.00 28.01
ATOM	9126		PHE M 1		147.696		24.343	1.00 23.04
MOTA	9127		PHE M 1		143.304		24.533	1.00 23.04
MOTA	9128		PHE M 1				24.333	1.00 32.39
MOTA	9129	CE2	PHE M 1		145.979			1.00 29.11
MOTA	9130	CZ	PHE M 1		147.320		23.926	1.00 31.28
MOTA	9131	И	ILE M 1		144.939		25.734	1.00 23.37
MOTA	9132	CA	ILE M 1			-24.040	26.421	
MOTA	9133	С	ILE M 1			-24.285	27.828	1.00 20.80
MOTA	9134	0	ILE M 1			-24.628	28.059	1.00 25.15
MOTA	9135	СВ	ILE M 1			-25.339	25.678	1.00 15.99
MOTA	9136	CG1	ILE M 1			-26.418	26.450	1.00 14.78
MOTA	9137	CG2	ILE M 1			-25.751	25.476	1.00 17.13
ATOM	9138	CD1				-27.534	25.513	1.00 13.40
MOTA	9139	N	PHE M 1			-24.118	28.765	1.00 22.86
MOTA	9140	CA	PHE M 1			-24.323	30.180	1.00 25.36
ATOM	9141	С	PHE M 1	.22		-25.625	30.655	1.00 27.77
ATOM	9142	0	PHE M 1	.22		-25.865	30.420	1.00 25.45
MOTA	9143	CB	PHE M 1			-23.158	30.997	1.00 25.03
ATOM	9144	CG	PHE M 1	.22		-21.826	30.603	1.00 25.35
ATOM	9145	CD1	PHE M 1	.22		-21.145	31.458	1.00 26.23
ATOM	9146	CD2	PHE M 1	122		-21.208	29.424	1.00 24.53
MOTA	9147	CE1	PHE M 1	L22		-19.846	31.152	1.00 28.97
MOTA	9148	CE2	PHE M 1	122		-19.912	29.099	1.00 28.33
ATOM	9149	CZ	PHE M 1	L22		-19.223	29.969	1.00 26.39
MOTA	9150	N	PRO M 1	L23		-26.509	31.295	1.00 29.83
ATOM	9151	CA	PRO M 1	L23		-27.781	31.788	1.00 30.64
MOTA	9152	С	PRO M 1			-27.580	33.264	1.00 35.01
ATOM	9153	0	PRO M 1			-26.653	33.930	1.00 33.97
MOTA	9154	CB	PRO M]			-28.735	31.595	1.00 23.82
ATOM	9155	CG	, PRO M 1			-27.840	31.318	1.00 27.82
ATOM	9156	CD	PRO M 1			-26.422	31.571	1.00 27.63
MOTA	9157	N	PRO M 1			-28.423	33.775	1.00 35.84
MOTA	9158	CA	PRO M 1			-28.456	35.126	1.00 34.45
ATOM	9159	С	PRO M 1			-28.105	36.303	1.00 39.42
MOTA	9160	0	PRO M 1			-28.776	36.589	1.00 43.77
MOTA	9161	СВ	PRO M			-29.871	35.252	1.00 30.30
MOTA	9162	CG	PRO M 1			-30.195	33.904	1.00 29.39
MOTA	9163	CD	PRO M			-29.488	32.946	1.00 34.94
MOTA	9164	N	SER M			-27.043	36.993	1.00 44.08
MOTA	9165	CA	SER M			-26.584	38.168	1.00 48.35
ATOM	9166	С	SER M	125		-27.759	39.073	1.00 50.22
MOTA	9167	0_	SER M			-28.287	39.389	1.00 48.49
ATOM	9168	CB	SER M			-25.453	38.841	1.00 49.66
ATOM	9169	OG	SER M			-25.173	38.120	1.00 59.10
MOTA	9170	N	ASP M			-28.202	39.446	1.00 58.24
ATOM	9171	CA	ASP M			-29.354	40.335	1.00 59.37
MOTA	9172	С	ASP M			-29.108	41.472	1.00 56.49
MOTA	9173	0	ASP M			-29.997	41.840	1.00 51.58
MOTA	9174	CB	ASP M			-29.459	40.873	1.00 65.48
MOTA	9175	CG	ASP M			-30.347	40.002	1.00 70.40
MOTA	9176		ASP M			-31.162	39.246	1.00 74.89
MOTA	9177		ASP M			-30.234	40.074	1.00 70.36
MOTA	9178	N	GLU M	127	143.174	-27.878	41.985	1.00 56.30

ATOM	9179	CA	GLU M 127	142.280 -27.496	43.081	1.00 57.43
MOTA	9180	С	GLU M 127	140.807 -27.692	42.736	1.00 55.39
ATOM	9181	0	GLU M 127	140.008 -28.003	43.603	1.00 55.05
ATOM	9182	СВ	GLU M 127	142.497 -26.038	43.475	1.00 61.38
ATOM	9183	CG	GLU M 127	141.439 -25.505	44.438	1.00 67.19
ATOM	9184	CD	GLU M 127	141.677 -24.047	44.827	1.00 73.77
	9185	OE1	_	140.774 -23.450	45.467	1.00 73.47
MOTA			_	142.767 -23.506	44.491	1.00 77.14
MOTA	9186	OE2		140.448 -27.494	41.475	1.00 55.19
MOTA	9187	N	GLN M 128		41.025	1.00 53.63
MOTA	9188	CA	GLN M 128	139.065 -27.675		1.00 55.44
MOTA	9189	С	GLN M 128	138.716 -29.170	40.833	
ATOM	9190	0	GLN M 128	137.537 -29.548	40.824	1.00 52.87
MOTA	9191	CB	GLN M 128	138.855 -26.931	39.707	1.00 52.33
ATOM	9192	CG	GLN M 128	137.408 -26.831	39.241	1.00 50.73
ATOM	9193	CD	GLN M 128	137.240 -27.091	37.742	1.00 50.34
ATOM	9194	OE1	GLN M 128	138.098 -26 <i>.</i> 747	36.938	1.00 49.81
ATOM	9195	NE2	GLN M 128	136.120 -27.686	37.370	1.00 49.31
ATOM	9196	N	LEU M 129	139.725 -30.021	40.641	1.00 56.25
ATOM	9197	CA	LEU M 129	139.449 -31.453	40.482	1.00 57.87
ATOM	9198	C.	LEU M 129	139.163 -32.059	41.871	1.00 60.52
ATOM	9199	ō	LEU M 129	138.507 -33.109	42.000	1.00 58.01
	9200	СВ	LEU M 129	140.635 -32.151	39.827	1.00 54.86
ATOM	9201	CG	LEU M 129	140.707 -31.895	38.327	1.00 54.71
MOTA			LEU M 129	142.183 -31.853	37.846	1.00 60.20
ATOM	9202	CD1		139.934 -32.979	37.638	1.00 45.56
MOTA	9203	CD2	LEU M 129	139.658 -31.374	42.906	1.00 61.39
ATOM	9204	N	LYS M 130		44.295	1.00 61.92
ATOM	9205	CA	LYS M 130	139.459 -31.791	44.293	1.00 62.84
ATOM	9206	С	LYS M 130	137.998 -31.532		1.00 63.02
ATOM	9207	0	LYS M 130	137.608 -31.558	45.808	1.00 63.02
ATOM	9208	CB	LYS M 130	140.355 -30.969	45.244	1.00 63.09
ATOM	9209	CG	LYS M 130	141.221 -31.787	46.210	
ATOM	9210	CD	LYS M 130	142.000 -32.923	45.508	1.00 66.47
ATOM	9211	CE	LYS M 130	143.460 -32.962	45.973	1.00 68.94
ATOM	9212	NZ	LYS M 130	144.019 -34.323	46.201	1.00 69.95
MOTA	9213	N	SER M 131	137.200 -31.285	43.591	1.00 62.37
MOTA	9214	CA	SER M 131	135.778 -30.992	43.733	1.00 60.06
MOTA	9215	С	SER M 131	134.920 -31.807	42.796	1.00 58.16
ATOM	9216	0	SER M 131	133.772 -31.467	42.543	1.00 56.26
ATOM	9217	CB	SER M 131	135.517 -29.517	43.479	1.00 59.75
ATOM	9218	OG	SER M 131	136.734 -28.806	43.571	1.00 63.79
ATOM	9219	N	GLY M 132	135.487 -32.871	42.253	1.00 59.61
MOTA	9220	CA	GLY M 132	134.705 -33.737	41.389	1.00 59.70
ATOM	9221	С	GLY M 132	134.362 -33.168	40.031	1.00 58.10
ATOM	9222	0	GLY M 132	133.823 -33.862		
ATOM	9223	N	THR M 133	134.669 -31.900	39.817	1.00 59.29
ATOM	9224	CA	THR M 133	134.390 -31.298	38.515	1.00 58.67
ATOM	9225	С	THR M 133	135.669 -30.900	37.803	1.00 56.02
ATOM	9226	0	THR M 133	136.589 -30.299	38.392	1.00 54.38
ATOM	- 9227	СВ	THR M 133	133.529 -30.040	38.610	1.00 58.68
ATOM	9228		THR M 133	133.034 -29.894	39.947	1.00 63.99
ATOM	9229	CG2		132.388 -30.116	37.618	1.00 56.95
ATOM	9230	N	ALA M 134	135.704 -31.246	36.526	1.00 49.93
ATOM	9231	CA	ALA M 134	136.834 -30.945	35.697	1.00 47.38
ATOM	9232	C	ALA M 134	136.345 -30.153	34.504	1.00 44.74
		0	ALA M 134	135.631 -30.680	33.657	1.00 47.92
MOTA	9233	CB	ALA M 134	137.500 -32.242	35.244	1.00 47.15
MOTA	9234			136.721 -28.888	34.430	1.00 37.96
MOTA	9235	N	SER M 135		33.293	1.00 34.51
ATOM	9236	CA	SER M 135		32.590	1.00 31.96
MOTA	9237	С	SER M 135		33.219	1.00 31.30
MOTA	9238	0	SER M 135	130.391 -20.913	33.213	1.00 32.37

		~~	ann w 136	135.391 -26.94	7 33.741	1.00 36.66
MOTA	9239		SER M 135			1.00 35.65
ATOM	9240		SER M 135	135.914 -26.25		
MOTA	9241	N	VAL M 136	137.663 -27.77		1.00 28.06
MOTA	9242	CA	VAL M 136	138.798 -27.25		1.00 27.79
ATOM	9243	С	VAL M 136	138.421 -26.04	4 29.699	1.00 25.22
ATOM	9244	0	VAL M 136	137.538 -26.13	.8 28.853	1.00 21.88
ATOM	9245	-	VAL M 136	139.410 -28.30	0 29.627	1.00 32.31
	9246		VAL M 136	138.317 -29.09		1.00 32.45
ATOM			VAL M 136	140.320 -27.62		1.00 28.30
MOTA	9247			139.128 -24.93		1.00 23.66
MOTA	9248		VAL M 137			
ATOM	9249		VAL M 137	138.880 -23.70		1.00 18.94
ATOM	9250	С	VAL M 137	139.883 -23.46		1.00 19.41
ATOM	9251	0	VAL M 137	141.093 -23.55	33 28.237	1.00 21.06
ATOM	9252	CB	VAL M 137	138.983 -22.50	30.064	1.00 14.77
ATOM	9253		VAL M 137	139.010 -21.28	32 29.213	1.00 16.81
ATOM	9254		VAL M 137	137.853 -22.44		1.00 18.32
		N	CYS M 138	139.352 -23.14		1.00 19.58
MOTA	9255			140.138 -22.85		1.00 22.49
ATOM	9256	CA	CYS M 138			
ATOM	9257	С	CYS M 138	139.858 -21.3		1.00 22.69
MOTA	9258	0	CYS M 138	138.745 -20.93		1.00 28.84
ATOM	9259	CB	CYS M 138	139.656 -23.7		1.00 25.82
ATOM	9260	SG	CYS M 138	139.781 -23.13	16 22.912	1.00 35.45
ATOM	9261	N	LEU M 139	140.853 -20.6	10 25.028	1.00 22.70
MOTA	9262	CA	LEU M 139	140.668 -19.1		1.00 18.65
	9263	C	LEU M 139	141.198 -18.5		1.00 19.21
ATOM						1.00 24.63
ATOM	9264	0	LEU M 139	142.362 -18.7		1.00 24.05
MOTA	9265	CB	LEU M 139	141.349 -18.4		
ATOM	9266	CG	LEU M 139	141.838 -17.0		1.00 5.71
ATOM	9267	CD1	LEU M 139	140.681 -16.1		1.00 8.77
ATOM	9268	CD2	LEU M 139	142.780 -16.7	01 26.929	1.00 3.37
ATOM	9269	N	LEU M 140	140.354 -17.9	16 22.828	1.00 20.30
ATOM	9270	CA	LEU M 140	140.789 -17.2	69 21.591	1.00 20.31
ATOM	9271	С	LEU M 140	141.013 -15.7		1.00 20.78
ATOM	9272	Ö	LEU M 140	140.037 -15.0		1.00 24.02
	9273	СВ	LEU M 140	139.712 -17.4		1.00 17.25
MOTA			LEU M 140	139.627 -18.9		1.00 21.44
ATOM	9274	CG				1.00 21.44
MOTA	9275		LEU M 140	139.125 -19.8		1.00 17.01
MOTA	9276	CD2	LEU M 140			_
MOTA	9277	N	ASN M 143	142.262 -15.3		1.00 16.90
MOTA	9278	CA	ASN M 143	142.440 -13.8		1.00 16.87
MOTA	9279	С	ASN M 14	142.498 -12.9	54 21.101	1.00 15.78
ATOM	9280	0	ASN M 143	142.904 -13.3	00 20.016	1.00 20.48
ATOM	9281	СВ	ASN M 14:	143.631 -13.5	23 23.160	1.00 19.55
ATOM	9282	CG	ASN M 14:	143.396 -12.1		1.00 28.56
ATOM	9283		ASN M 14:	144.314 -11.5		1.00 31.16
	9284		ASN M 14:			1.00 34.78
MOTA			ASN M 14:			1.00 18.43
MOTA	9285	N				1.00 10.43
MOTA	9286	CA	ASN M 143			
MOTA	9287	С	ASN M 143			1.00 17.93
MOTA	9288	0	ASN M 143		86 18.204	1.00 24.72
MOTA	9289	CB	ASN M 143	143.063 -9.7	30 20.759	1.00 22.95
MOTA	9290	CG	ASN M 14	142.887 ~9.1	19 22.153	1.00 34.06
ATOM	9291		ASN M 14:		03 23.147	1.00 31.68
ATOM	9292		ASN M 14			1.00 39.52
ATOM	9293	·N	PHE M 14			1.00 14.19
	9294					
MOTA		CA	PHE M 14			
ATOM	9295	С	PHE M 14			
MOTA	9296	0	PHE M 14			
MOTA	9297	CB	PHE M 14			
MOTA	9298	CG	PHE M 14	138.767 -13.6	37 17.745	1.00 21.87

ATOM	9299	CD1	PHE M 143	138.837 -	-14.038		1.00 22.82
ATOM	9300	CD2	PHE M 143	137.516 -	-13.638		1.00 20.60
ATOM	9301	CE1	PHE M 143	137.693 -	-14.432		1.00 18.87
ATOM	9302	CE2	PHE M 143	136.380	-14.026	17.784	1.00 14.07
ATOM	9303	CZ	PHE M 143	136.465	-14.424	19.103	1.00 19.59
ATOM	9304	N	TYR M 144	139.208	-11.098	15.179	1.00 4.00
ATOM	9305	CA	TYR M 144	138.182	-10.322	14.446	1.00 6.37
ATOM	9306	C.	TYR M 144	138.231	-10.834	13.047	1.00 6.60
	9307	0	TYR M 144	139.298	-11.120	12.585	1.00 9.69
MOTA	9308	CB	TYR M 144	138.454	-8.841	14.439	1.00 6.15
MOTA	9309	CG	TYR M 144	137.446	-8.088	13.592	1.00 7.38
MOTA	9310	CD1	TYR M 144	136.579	-7.169	14.168	1.00 6.79
ATOM		CD2	TYR M 144	137.367	-8.294	12.225	1.00 2.58
ATOM	9311	CE1	TYR M 144	135.653	-6.468	13.400	1.00 7.48
MOTA	9312		TYR M 144	136.454	-7.610	11.449	1.00 10.13
MOTA	9313	CE2	TYR M 144	135.587	-6.685	12.038	1.00 9.39
MOTA	9314	CZ	TYR M 144	134.659	-5.986	11.271	1.00 7.52
MOTA	9315	OH		137.086		12.324	1.00 10.39
MOTA	9316	N	PRO M 145	135.690		12.732	1.00 10.43
MOTA	9317	CA	PRO M 145	135.323		13.864	1.00 12.75
MOTA	9318	С	PRO M 145	136.094	_12 529	14.238	1.00 6.63
MOTA	9319	0	PRO M 145	134.892	-12.323	11.483	1.00 10.57
MOTA	9320	CB	PRO M 145	134.692		10.343	1.00 7.84
MOTA	9321	CG	PRO M 145	133.866	-11.149	10.941	1.00 12.16
MOTA	9322	CD	PRO M 145			14.333	1.00 20.41
MOTA	9323	N	ARG M 146	134.089		15.433	1.00 22.02
MOTA	9324	CA	ARG M 146	133.543	-12.279	15.433	1.00 17.59
MOTA	9325	С	ARG M 146	133.173		15.916	1.00 20.72
MOTA	9326	0	ARG M 146	132.936		16.035	1.00 21.67
MOTA	9327	CB	ARG M 146	132.323		17.347	1.00 28.02
MOTA	9328	CG	ARG M 146		-12.149		1.00 25.72
MOTA	9329	CD	ARG M 146		-12.287	17.402 18.770	1.00 40.17
ATOM	9330	NE	ARG M 146		-12.458		1.00 44.51
MOTA	9331	CZ	ARG M 146		-13.383	19.621	1.00 41.76
ATOM	9332		ARG M 146		-14.249	19.254	1.00 43.80
ATOM	9333	NH2	2 ARG M 146		-13.445	20.849	1.00 10.37
ATOM	9334	N	GLU M 147		-14.021	13.752	1.00 10.37
MOTA	9335	CA	GLU M 147		-15.393	13.370	1.00 13.73
MOTA	9336	С	GLU M 147		-16.328	13.732	1.00 12.40
MOTA	9337	0	GLU M 147	135.04/	-16.144	13.231	1.00 10.33
MOTA	9338	CB	GLU M 147	132.484	-15.456	11.887	1.00 12.30
MOTA	9339	CG	GLU M 147	131.202	-14.760	11.538	1.00 30.40
MOTA	9340		GLU M 147		-13.261	11.299	1.00 44.89
MOTA	9341		1 GLU M 147		-12.469	11.886	1.00 43.40
ATOM	9342	OE	2 GLU M 147	132.270	-12.884	10.510	1.00 43.40
MOTA	9343	N	ALA M 148	133.726	-17.330	14.586	
ATOM	9344	CA	ALA M 148	134.820	-18.206	15.018	1.00 9.20 1.00 11.18
MOTA	9345	С	ALA M 148	134.442	-19.597	15.491	1.00 11.10
MOTA	9346	0	ALA M 148	134.071	-19.755	16.655	
MOTA	9347		ALA M 148	135.570	-17.514	16.140	
ATOM	9348	N	LYS M 149	134.595	-20.615	14.652	1.00 9.92
MOTA	9349		LYS M 149	134.226	5 -21.960	15.081	1.00 14.87
ATOM	9350		LYS M 149	135.229	-22.503	16.060	
ATOM	9351		LYS M 149	136.403	L -22.303	15.880	
ATOM	9352			134.133	3 -22.916	13.909	
MOTA	9353			134.085	5 -24.363	14.340	40 00
ATOM	9354			133.039	9 -25.125	13.555	
ATOM	9355			133.67	7 -26.223	12.677	
MOTA	9356			134.04	3 -25.714	11.298	
ATOM	935		VAL M 150	134.76	3 -23.202	17.086	
ATOM	9358			135.63	0 -23.769	18.106	1.00 23.65
1.1011	,,,,						

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MOTA	9359	С	VAL	M	150	135.124	-25.145	18.546		27.66
MOTA	9360	0	VAL	М	150	134.418	-25.219	19.542	1.00	34.45
ATOM	9361	СВ	VAL			135.648	-22 850	19.329	1 00	23.30
						136.967		20.013		29.89
ATOM	9362	CG1	VAL							
ATOM	9363	CG2	VAL	M	150	135.404	-21.433	18.897		26.79
ATOM	9364	N	GLN	M	151	135.481	-26.215	17.824	1.00	28.06
ATOM	9365	CA	GLN	М	151	135.057	-27.598	18.131	1.00	28.40
ATOM	9366	C	GLN			135.929		19.194		27.91
MOTA	9367	0	GLN			137.097		19.275		30.24
ATOM	9368	CB	GLN	M	151	135.190		16.903		34.32
ATOM	9369	CG	GLN	М	151	133.912	-29.112	16.385	1.00	44.84
ATOM	9370	CD	GLN	М	151	133.897	-29.225	14.843	1.00	48.95
ATOM	9371	OE1	GLN			132.858		14.189		53.91
			GLN			135.060		14.264		51.62
MOTA	9372	NE2								
ATOM	9373	N	TRP			135.379		20.019		28.17
ATOM	9374	CA	TRP	М	152	136.182	-29.749	21.070	1.00	27.60
ATOM	9375	С	TRP	М	152	136.383	-31.226	20.771	1.00	30.13
ATOM	9376	0	TRP			135.479	-31.866	20.245	1.00	29.30
	9377	СВ	TRP			135.493		22.419		20.07
ATOM										
ATOM	9378	CG	TRP			135.784		23.166	1.00	
ATOM	9379	CDl	TRP	М	152	134.997	-27.294	23.242	1.00	15.77
ATOM	9380	CD2	TRP	М	152	136.877	-28.173	24.060	1.00	14.70
ATOM	9381	NEl	TRP	М	152	135.518	-26.394	24.144	1.00	18.47
ATOM	9382	CE2	TRP			136.677		24.658	1.00	
ATOM	9383	CE3	TRP	-		138.002		24.423	1.00	
MOTA	9384	CZ2	TRP			137.555		25.589	1.00	
ATOM	9385	CZ3	TRP	М	152	138.871	-28.396	25.351	1.00	17.08
ATOM	9386	CH2	TRP	М	152	138.643	-27.123	25.927	1.00	22.51
ATOM	9387	N	LYS	М	153		-31.767	21.121		33.52
MOTA	9388	CA	LYS				-33.171	20.857		34.97
ATOM	9389	С	LYS				-33.859	21.999		37.22
ATOM	9390	0	LYS			139.678	-33.497	22.352		39.03
MOTA	9391	CB	LYS	М	153	138.674	-33.297	19.584	1.00	34.72
MOTA	9392	CG	LYS	М	153	137.900	-32.866	18.335	1.00	41.02
ATOM	9393	CD	LYS				-33.356	17.031		46.88
ATOM	9394	CE	LYS				-32.197	16.092		48.42
MOTA	9395	NZ	LYS				-31.738	16.205		49.53
ATOM	9396	N	ΛŸΓ			137.883	-34.845	22.584	1.00	39.57
ATOM	9397	CA	VAL	М	154	138.421	-35.621	23.691	1.00	39.97
ATOM	9398	С	VAL	M	154	138.816	-37.008	23.232	1.00	42.85
ATOM	9399	0	VAL				-37.780	22.783		38.28
ATOM	9400	СВ	VAL				-35.759	24.866	1.00	
ATOM	9401	CGl	VAL				-36.480	26.046		33.24
ATOM	9402	CG2	VAL	-	_		-34.399	25.329		36.45
ATOM	9403	N	ASP	М	155	140.109	-37.304	23.372	1.00	49.75
ATOM	9404	CA	ASP	М	155	140.691	-38.584	22.987	1.00	52.83
ATOM	9405	С	ASP				-38.923	21.589	1.00	53.05
ATOM	9406	0	ASP				-40.016	21.324		50.77
ATOM	9407	CB	ASP				-39.676	23.991		53.00
ATOM	9408	CG	ASP	M	155	141.210	-39.680	25.228		58.97
ATOM	9409	OD1	ASP	M·	155	142.032	-38.739	25.397	1.00	55.58
ATOM	9410	OD2	ASP	Μ	155	141.098	-40.635	26.034	1.00	64.88
ATOM	9411	N	ASN				-37.941	20.701		56.47
ATOM	9412	CA	ASN				-38.075	19.302		60.05
ATOM	9413	С	ASN				-38.079	19.161		60.21
ATOM	9414	0	ASN	М	156	137.959	-37.962	18.054		61.65
ATOM	9415	СВ	ASN			140.556	-39.352	18.691	1.00	66.64
ATOM	9416	CG	ASN				-39.539	19.005		77.81
ATOM	9417		ASN				-38.560			79.55
								19.091		
ATOM	9418	พบ2	ASN	ľΥì	120	142.455	-40.806	19.176	1.00	80.57

ATOM	9419	N .	ALA M 157	137.778 -38.202	20.285	1.00 58.44
ATOM	9420	CA	ALA M 157	136.321 -38.209	20.275	1.00 56.57
ATOM	9421		ALA M 157	135.794 -36.787	20.128	1.00 54.92
ATOM	9422		ALA M 157	135.756 -36.038	21.096	1.00 55.74
ATOM	9423		ALA M 157	135.803 -38.822		1.00 58.31
ATOM	9424		LEU M 158	135.376 -36.412		1.00 53.69
ATOM	9425		LEU M 158	134.875 -35.056		1.00 54.04
MOTA	9426		LEU M 158	133.720 -34.709		1.00 51.51
MOTA	9427		LEU M 158	132.588 -35.105		1.00 48.87 1.00 56.55
MOTA	9428		LEU M 158	134.417 -34.862		1.00 56.55 1.00 57.88
MOTA	9429		LEU M 158	133.711 -33.561		1.00 57.05
· MOTA	9430		LEU M 158	132.230 -33.775		1.00 57.03
MOTA	9431	CD2	LEU M 158	134.097 -32.379		1.00 53.47
MOTA	9432	N	GLN M 159	134.017 -33.945		1.00 51.22
ATOM	9433	CA	GLN M 159	133.006 -33.501		1.00 52.22
MOTA	9434	С	GLN M 159	131.856 -32.947 132.037 -32.644		1.00 52.22
MOTA	9435	0	GLN M 159	132.037 = 32.044		1.00 54.86
MOTA	9436	CB	GLN M 159	134.429 -32.839		1.00 55.69
MOTA	9437	CG	GLN M 159	134.429 -32.63		1.00 56.81
MOTA	9438	CD	GLN M 159	133.563 -35.029		1.00 58.01
ATOM	9439	OEl		133.407 -33.66		1.00 58.89
ATOM	9440	NE2	GLN M 159 SER M 160	130.691 -32.79		1.00 50.94
ATOM	9441	N	SER M 160	129.501 -32.25		1.00 49.90
MOTA	9442	CA	SER M 160	128.349 -32.16		1.00 45.97
MOTA	9443	С О	SER M 160	127.341 -31.53		1.00 44.20
ATOM	9444 9445	СВ	SER M 160	129.075 -33.14		1.00 55.27
ATOM ATOM	9445	OG	SER M 160	127.762 -32.81		1.00 57.79
ATOM	9447	N	GLY M 161	128.504 -32.79		1.00 46.27
ATOM	9448	CA	GLY M 161	127.453 -32.74		1.00 46.29
ATOM	9449	C	GLY M 161	127.504 -31.37	6 24.482	1.00 46.65
ATOM	9450	Ō	GLY M 161	126.819 -30.44		1.00 43.61
ATOM	9451	N	ASN M 162	128.358 -31.22		1.00 46.54
ATOM	9452	CA	ASN M 162	128.347 -29.95		1.00 50.33
ATOM	9453	С	ASN M 162	129.625 -29.22		1.00 48.83
MOTA	9454	0	ASN M 162	130.536 -29.74		1.00 49.43
ATOM	9455	CB	ASN M 162	127.556 -30.07		1.00 57.25 1.00 60.30
MOTA	9456	CG	ASN M 162	126.021 -30.07		1.00 60.30 1.00 60.25
MOTA	9457	OD1		125.517 -29.92		1.00 60.25
MOTA	9458		ASN M 162	125.280 -30.23	-	1.00 46.85
MOTA	9459	N	SER M 163	129.593 -27.97 130.634 -26.96		1.00 40.03
MOTA	9460	CA	SER M 163	129.919 -25.60		1.00 34.75
ATOM	9461	C	SER M 163	128.920 -25.45		1.00 23.93
ATOM	9462	0	SER M 163 SER M 163	131.629 -27.10		1.00 41.70
ATOM	9463	CB	SER M 163	130.943 -27.28		
ATOM	9464	OG`	GLN M 164	130.459 -24.60		
ATOM	9465 9466		GLN M 164	129.844 -23.28		
MOTA MOTA	9467		GLN M 164	130.802 -22.15		1.00 28.42
ATOM	9468		GLN M 164	131.862 -21.97	5 26.829	1.00 31.76
ATOM	9469		GLN M 164	129.288 -23.00		
ATOM	9470		GLN M 164	127.880 -23.52	26 28.276	
ATOM	9471		GLN M 164	127.291 -23.13	10 29.637	
ATOM	9472		L GLN M 164	127.983 -22.5	30.512	
ATOM	9473			126.002 -23.3		
ATOM	9474		GLU M 165	130.411 -21.4		
ATOM	9475		GLU M 165	131.174 -20.2		
ATOM	9476	C	GLU M 165	130.669 -18.9		
MOTA	9477	0	GLU M 165	129.512 -18.8		
MOTA	9478	СВ	GLU M 165	130.987 -20.1	23 23.203	3 1.00 23.03

MOTA	9479	CG	GLU M		131.703		22.321	1.00 30.58
ATOM	9480	CD	GLU M	165	131.759		20.829	1.00 35.19
MOTA	9481	OE1	GLU M		131.292		20.496	1.00 30.68
MOTA	9482	OE2	GLU M		132.271		19.985	1.00 35.86
MOTA	9483	N	SER M	166	131.529		25.469	1.00 17.29
MOTA	9484	CA	SER M	166	131.127		25.975	1.00 10.33
ATOM	9485	С	SER M	166	132.044		25.181	1.00 11.56
ATOM	9486	0	SER M	166	133.183	-15.997	24.821	1.00 12.26
ATOM	9487	CB	SER M	166	131.379	-16.510	27.485	1.00 7.89
ATOM	9488	OG	SER M	166	131.355	-15.154	27.907	1.00 4.76
ATOM	9489	N		167	131.570	-14.482	24.875	1.00 4.23
ATOM	9490	CA		167	132.407	-13.590	24.091	1.00 7.12
ATOM	9491	C	VAL M		132.480		24.675	1.00 7.67
MOTA	9492	ō		167	131.745		25.586	1.00 19.37
MOTA	9493	СВ		167	131.831		22.698	1.00 5.41
ATOM	9494		VAL M		132.541		21.816	1.00 6.79
ATOM	9495		VAL M	167	131.912		22.132	1.00 7.41
ATOM	9496	N		168	133.344		24.152	1.00 4.02
ATOM	9497	CA		168	133.455	-9.995	24.660	1.00 5.12
ATOM	9498	C	THR M	168	133.125	-9.002	23.581	1.00 5.44
ATOM	9499	0	THR M	168	133.210	-9.314	22.407	1.00 4.45
	9500	CB	THR M	168	134.857	-9.722	25.140	1.00 7.58
ATOM	9501	OG1	THR M		135.772		24.074	1.00 8.11
ATOM	9501	CG2			135.772		26.342	1.00 10.06
ATOM			GLU M		132.723	-7.807	23.981	1.00 11.31
ATOM	9503	И	GLU M		132.723	-6.788	23.001	1.00 16.15
ATOM	9504	CA	GLU M		132.500	-6.308	22.393	1.00 14.60
MOTA	9505	С			134.719	-6.412	23.035	1.00 16.72
ATOM	9506	0	GLU M		131.618	-5.619	23.692	1.00 22:92
ATOM	9507	CB	GLU M		130.144	-5.405	23.272	1.00 28.99
MOTA	9508	CG	GLU M		129.377	-6.719	23.165	1.00 25.09
ATOM	9509	CD	GLU M			-7.714	23.813	1.00 35.42
ATOM	9510	OE1			129.764 128.378	-6.778	22.427	1.00 33.42
MOTA	9511	OE2				-5.781	21.173	1.00 12.61
ATOM	9512	N	GLN M		133.637		20.530	1.00 12.01
ATOM	9513	CA	GLN M		134.859	-5.274 -4.517	21.539	1.00 13.05
ATOM	9514	С	GLN M		135.706	-3.675	22.274	1.00 13.03
ATOM	9515	0	GLN M		135.191	-4.329	19.393	1.00 3.10
ATOM	9516	CB	GLN M		134.518 133.645	-4.329	18.395	1.00 5.37
MOTA	9517	CG	GLN M			-4.215	17.110	1.00 13.10
ATOM	9518	CD	GLN M		133.668 134.447	-4.213	16.226	1.00 19.58
ATOM	9519	OE1				-3.192	16.981	1.00 13.30
MOTA	9520	NE2			132.817	-4.814	21.554	1.00 19.98
ATOM	9521	N	ASP M		137.002		22.482	1.00 13.30
ATOM	9522	CA	ASP M		137.923	-4.175	22.306	1.00 27.32
MOTA	9523	С	ASP M		137.958	-2.668	21.199	1.00 27.42
MOTA	9524	0	ASP M		137.844	-2.135 -4.750	22.333	1.00 25.17
MOTA	9525	CB	ASP M		139.331		23.544	1.00 35.13
ATOM	9526	CG	ASP M		140.228	-4.441		
MOTA	9527		ASP M		139.750	-3.828	24.532	1.00 52.36
MOTA	9528		ASP M		141.428	-4.810	23.517 23.422	1.00 55.83
ATOM	9529	N	SER M		138.081	-1.975		1.00 25.66
ATOM	9530	CA	SER M		138.106	-0.540	23.380	1.00 29.14 1.00 30.51
MOTA	9531	C	SER M		139.391	-0.030	22.799	-
MOTA	9532	0	SER M		139.498	1.141	22.446	1.00 31.34
MOTA	9533	CB	SER M		137.933	0.007	24.780	1.00 32.15
MOTA	9534	OG	SER M		139.077	-0.255	25.560	1.00 35.73
MOTA	9535	N	LYS M		140.371	-0.927	22.715	1.00 36.03
MOTA	9536	CA	LYS M		141.703		22.198	1.00 34.19
ATOM	9537	С	LYS M		141.889		20.743	1.00 31.50
ATOM	9538	0	LYS M	173	142.077	-0.157	19.882	1.00 31.87

						22 060 1	1.00 37.25
ATOM	9539	CB LY	(S M 173	142.100			1.00 44.75
ATOM	9540		(S M 173	143.378	• •		1.00 56.73
ATOM	9541	CD T?	(S M 173	144.401	-1.079 -1.481		1.00 63.12
ATOM	9542	CE L	YS M 173	143.831	-2.888		1.00 65.82
MOTA	9543	NZ L	YS M 173	144.170		20.471	1.00 24.64
ATOM	9544	N AS	SP M 174	141.799	-2.315 -2.827		1.00 21.74
MOTA	9545	CA A	SP M 174	141.983	-3.197		1.00 22.53
MOTA	9546	C A	SP M 174	140.697	-3.735		1.00 25.08
ATOM	9547	o A	SP M 174	140.751	-4.078		1.00 22.47
MOTA	9548	CB A	SP M 174	142.879 142.333	-5.177		1.00 23.24
ATOM	9549	CG A	SP M 174	142.333	-5.276		1.00 23.32
MOTA	9550	OD1 A	SP M 174	141.037	-5.954	20.676	1.00 20.19
MOTA	9551	_	SP M 174	139.547	-2.970	19.020	1.00 19.94
MOTA	9552	N S	ER M 175	138.274	-3.334	18.406	1.00 14.71
MOTA	9553	CA S	ER M 175	138.301	-4.771	17.961	1.00 13.71
ATOM	9554	C S	ER M 175	137.962	-5.069	16.816	1.00 11.30
MOTA	9555	0 S	ER M 175	137.978	-2.458	17.214	1.00 8.39
MOTA	9556	CB S	SER M 175 SER M 175	138.188	-1.135	17.635	1.00 14.74
MOTA	9557	_	THR M 176	138.689	-5.658	18.872	1.00 11.89
MOTA	9558		THR M 176	138.758	-7.075	18.553	1.00 18.39
MOTA	9559		THR M 176	138.096	-7.971	19.601	1.00 19.28
MOTA	9560	C	THR M 176	138.107	-7.663	20.798	1.00 25.63
MOTA	9561	O T	THR M 176	140.230	-7.543	18.385	1.00 18.36
MOTA	9562		THR M 176	140.910	-7.453	19.643	1.00 17.31
ATOM	9563 9564		THR M 176	140.937	-6.697	17.354	1.00 15.79
MOTA	9565		TYR M 177	137.561	-9.100	19.154	1.00 14.18
MOTA	9566	CA '	TYR M 177	136.918	-10.043	20.050	1.00 14.20
MOTA	9567		TYR M 177	137.864	-10.967	20.818	1.00 17.63
MOTA MOTA	9568		TYR M 177		-10.950	20.620	1.00 22.57
ATOM	9569		TYR M 177	135.947	-10.874	19.248	1.00 10.81 1.00 10.94
ATOM	9570		TYR M 177	134.875	-10.007	18.666	1.00 10.94 1.00 3.44
ATOM	9571	CD1	TYR M 177	134.073		19.495	1.00 12.82
MOTA	9572	CD2	TYR M 177	134.745		17.280 18.967	1.00 12.02
ATOM	9573	CE1	TYR M 177	133.197			1.00 7.52
MOTA	9574	CE2	TYR M 177	133.864			1.00 4.76
MOTA	9575	CZ	TYR M 177	133.103			1.00 5.71
MOTA	9576		TYR M 177	132.338	-11.737		1.00 18.31
MOTA	9577	7 N	SER M 178	137.300	7 - 12.721		1.00 16.28
ATOM	9578		SER M 178	136.02	$\frac{-12.721}{3}$ -13.572		1.00 17.67
MOTA	9579		SER M 178	135.07	9 -13.077		1.00 21.84
MOTA	958		SER M 178	139.70	6 -12.088		1.00 15.41
ATOM	958		SER M 178	139.71	5 -11.168		1.00 11.31
MOTA			SER M 178 LEU M 179	136.89	6 -14.842	22.661	1.00 15.99
MOTA			LEU M 179	135.85	4 -15.769	9 23.040	
MOTA			LEU M 179	136.43	7 -16.79	7 24.039	
MOTA		_	LEU M 179	137.65	0 -16.99	5 24.089	
ATOM			LEU M 179	135.35	6 -16.43	7 21.760	
ATOM			LEU M 179	134.52	3 - 17.72	1 21.746	
ATOM			LEU M 179	134.32	5 -18.11	5 20.317	
MOTA			LEU M 179	135.19	6 -18.87	2 22.485	1.00 14.86
ATOM			SER M 180	135.58	13 -17.43	8 24.842	
ATOM		_	SER M 180	136.06	55 -18.42	5 25.784	
MOTA		_	SER M 180	135.18	34 -19.66	0 25.764	
MOTA MOTA		_	SER M 180	134.09	99 -19.64	1 26.33	
ATON 4OTA			SER M 180	136.17	li -17.80	17 27.19	
ATON			SER M 180	134.82	21 -17.54	8 27.74	
ATOR MOTA			SER M 181	135.63	33 -20.72	25.10	
ATO				134.8	71 -21.97	11 25.07	0 1.00 25.05
AIOI	. 55.						

ATOM	9599	С	SER M	181	135.279	-22.867	26.234	1.00 26.27
ATOM	9600	0	SER M	181	136.447	-23.238	26.328	1.00 30.16
ATOM	9601	СВ	SER M	181	135.133	-22.746	23.807	1.00 27.81
ATOM	9602	OG	SER M		134.583	-24.045	23.953	1.00 29.97
ATOM	9603	N	THR M		134.325		27.076	1.00 25.17
			THR M		134.664		28.225	1.00 22.65
MOTA	9604	CA			134.135			1.00 23.72
MOTA	9605	С	THR M				28.278	
MOTA	9606	0	THR M		133.039		28.761	1.00 28.97
ATOM	9607	CB	THR M		134.212		29.508	1.00 15.36
MOTA	9608	OG1	THR M	182	134.513		29.476	1.00 17.88
MOTA	9609	CG2	THR M	182	134.888		30.684	1.00 9.59
MOTA	9610	N	LEU M	183	134.902	-26.477	27.815	1.00 24.97
ATOM	9611	CA	LEU M	183	134.444	-27.866	27.881	1.00 20.81
ATOM	9612	С	LEU M	183	134,384	-28.202	29.360	1.00 27.01
ATOM	9613	ō	LEU M			-27.737	30.145	1.00 27.66
ATOM	9614	СВ	LEU M			-28.812	27.204	1.00 12.43
•		CG	LEU M			-30.252	27.250	1.00 12.34
ATOM	9615						25.848	1.00 12.34
MOTA	9616	CD1	LEU M			-30.631		
MOTA	9617	CD2	LEU M			-31.234	27.791	1.00 9.56
MOTA	9618	N	THR M			-29.022	29.749	1.00 33.22
MOTA	9619	CA	THR M			-29.368	31.158	1.00 38.19
MOTA	9620	С	THR M	184		-30.853	31.379	1.00 42.30
ATOM	9621	0	THR M	184	131.748	-31.269	31.056	1.00 41.80
ATOM	9622	CB	THR M	184	132.265	-28.402	31.820	1.00 34.19
ATOM	9623	OG1	THR M			-28.577	33.231	1.00 32.45
ATOM	9624	CG2	THR M			-28.675	31.345	1.00 33.98
MOTA	9625	N	LEU M			-31.641	31.903	1.00 42.22
MOTA	9626	CA	LEU M			-33.059	32.180	1.00 42.12
ATOM	9627	C	LEU M			-33.358	33.666	1.00 45.05
						-32.514	34.489	1.00 50.01
ATOM	9628	0	LEU M					
MOTA	9629	CB	LEU M			-33.848	31.594	1.00 43.37
ATOM	9630	CG	LEU M		134.982	-33.714	30.094	1.00 44.00
ATOM	9631	CD1	LEU M			-34.873	29.614	1.00 44.17
MOTA	9632	CD2	LEU M		133.639	-33.699	29.388	1.00 45.12
MOTA	9633	N	SER M	186	133.154	-34.572	34.017	1.00 47.03
ATOM	9634	CA	SER M	186	133.072	-34.949	35.420	1.00 50.48
ATOM	9635	С	SER M	186	134.446	-35.450	35.780	1.00 53.85
ATOM	9636	0	SER M	186	135.044	-36.199	34.995	1.00 54.71
MOTA	9637	CB	SER M	186	132.095	-36.081	35.584	1.00 51.47
ATOM	9638	OG	SER M	186	132.593	-37.174	34.844	1.00 54.63
ATOM	9639	N	LYS M			-35.053	36.952	1.00 55.22
ATOM	9640	CA	LYS M			-35.468	37.406	1.00 55.10
ATOM	9641	C	LYS M			-36.855	36.907	1.00 52.46
	9642	0	LYS M			-37.193		
MOTA						-35.474	38.932	1.00 57.66
MOTA	9643	CB	LYS M					
MOTA	9644	CG	LYS M			-35.803	39.458	1.00 58.46
MOTA	9645	CD	LYS M			-37.289	39.706	1.00 61.95
MOTA	9646	CE	LYS M			-37.570	41.126	1.00 65.03
MOTA	9647	ΝZ	LYS M	187		-36.443	41.695	1.00 68.62
MOTA	9648	N	ALA M	188		-37.652	36.929	1.00 51.25
MOTA	9649	CA	ALA M	188		-39.014	36.458	1.00 55.30
ATOM	9650	С	ALA M	188		-39.007	35.000	1.00 57.26
ATOM	9651	Ó	ALA M			-39.319	34.634	1.00 62.27
ATOM	9652	СВ	ALA M			-39.678	36.616	1.00 56.00
ATOM	9653	N	ASP M			-38.649	34.163	1.00 56.49
ATOM	9654	ÇA	ASP M			-38.601	32.737	1.00 57.61
ATOM	9655	C	ASP M			-37.979	32.391	1.00 56.88
	9656							1.00 54.35
ATOM		0	ASP M			-38.471	31.517	
ATOM	9657	CB	ASP M			-37.818	32.061	1.00 62.53
MOTA	9658	CG	ASP M	189	132.900	-38.666	31.764	1.00 67.50

ATOM	9659	OD1 ASP M 189	132.002	32.729 1.00 72. 30.579 1.00 71.	14 10
MOTA	9660	OD2 ASP M 189	132.010		10
ATOM	-	N TYR M 190	136.886 -36.898		
ATOM	9662	CA TYR M 190	138.150 -36.256		32
ATOM	9663	C TYR M 190	139.292 -37.234		30
ATOM	9664	O TYR M 190	140.072 -37.515		
	9665	CB TYR M 190	138.321 -35.025	33.656 1.00 55.	01
MOTA	9666	CG TYR M 190	139.589 -34.272	33.343 1.00 54.	0.1
ATOM	9667	CD1 TYR M 190	139.914 -33.930	32.028 1.00 50.	70
ATOM ATOM	9668	CD2 TYR M 190	140.500 -33.958	34.353 1.00 54.	22
	9669	CE1 TYR M 190	141.122 -33.296	31.722 1.00 49.	
MOTA	9670	CE2 TYR M 190	141.709 -33.325	34.062 1.00 53	
MOTA MOTA	9671	CZ TYR M 190	142.013 -33.000	32.744 1.00 51	
	9672	OH TYR M 190	143.211 -32.382	32.469 1.00 51	.00
ATOM	9673	N GLU M 191	139.383 -37.762	34.254 1.00 57	
MOTA	9674	CA GLU M 191	140.426 -38.728	34.598 1.00 60	
MOTA	9675	C GLU M 191	140.363 -39.966	33.676 1.00 58	.04
ATOM	9676	O GLU M 191	141.288 -40.777	33.613 1.00 57	.92
ATOM	9677	CB GLU M 191	140.263 -39.149	36.065 1.00 64	.01
ATOM ATOM	9678	CG GLU M 191	141.263 -38.481	•	.63 .70
MOTA	9679	CD GLU M 191	140.727 -38.264		.91
ATOM	9680	OE1 GLU M 191	140.846 -37.130	30,300	
MOTA	9681	OE2 GLU M 191	140.195 -39.234	39.024 1.00 83	27
ATOM	9682	N LYS M 192	139.265 -40.099	32.951 1.00 57 32.049 1.00 59	. 06
ATOM	9683	CA LYS M 192	139.082 -41.225		.00
ATOM	9684	C LYS M 192	139.783 -41.101		. 40
ATOM	9685	O LYS M 192	139.879 -42.088		86
ATOM	9686	CB LYS M 192	137.585 -41.439		1.00
ATOM	9687	CG LYS M 192	137.067 -40.941		. 03 4 01
ATOM	9688	CD LYS M 192	135.517 -40.985		. 11
ATOM	9689	CE LYS M 192	134.917 -39.770		1 83
ATOM	9690	NZ LYS M 192	134.031 -40.166	28.425 1.00 63 30.344 1.00 5	R 54
MOTA	9691	N HIS M 193	140.255 -39.902	29.047 1.00 5	3.25
ATOM	9692	CA HIS M 193	140.892 -39.711	29.015 1.00 5	0.27
MOTA	9693	C HIS M 193	142.283 -39.106	30.004 1.00 4	6.45
ATOM	9694	O HIS M 193	142.763 -38.556	28.179 1.00 5	5.17
MOTA	9695	CB HIS M 193	139.952 -38.906	27.770 1.00 5	7.79
MOTA	9696	CG HIS M 193	138.735 -39.674 138.806 -40.946		0.63
MOTA	9697		137.425 -39.354	27.811 1.00 5	7.57
MOTA	9698		137.425 -39.334		8.76
MOTA	9699	CE1 HIS M 193	137.369 -41.366		7.83
MOTA	9700		142.920 -39.207	27.854 1.00 4	6.93
MOTA	9701		144.271 -38.708	27.704 1.00 4	5.41
MOTA	9702		144.411 -37.329	27.132 1.00 4	1.47
ATOM	9703		144.960 -36.434	27.775 1.00 3	9.88
MOTA	9704		145.095 -39.663	26.838 1.00 5	,1.56
MOTA	9705		146.519 -39.173	26.554 1.00 5	7.40
ATOM			147.555 -39.862	77.454 1.00	54.15
MOTA			147.110 -40.002	78.925 1.00	56.72
MOTA			146.451 -41.33	29.197 1.00	55.65
MOTA			143.958 -37.17	25.899 1.00	36.65
MOTA		105	144.100 -35.89	7 25.229 1.00	36.73
ATOM			142.819 -35.10	8 25.002 1.00	35.82
ATOM			141.876 -35.58	R 24.392 1.00	33.43
ATOM			144.857 -36.07	7 23.854 1.00	36.49
ATOM			145.489 -37.45	9 23.755 1.00	32.04
ATOM			143.902 -35.90	1 22.688 1.00	37.97
ATOM			142.824 -33.87	1 25.482 1.00	35.84
ATOM			141.693 -32.96	2 25.355 1.00	32.75
MOTA	1 971	.8 CA TYR M 196			

					3.40. 4		01 005	24.385	1.00 31.88
MOTA	9719	С	TYR M 19				-31.885	_	1.00 34.33
ATOM	9720	0	TYR M 19				-31.385	24.501	
ATOM	9721	СВ	TYR M 19	96	141.3	87	-32.354	26.721	1.00 33.56
ATOM	9722	CG	TYR M 19		140.7	97	-33.344	27.664	1.00 34.02
	9723	CD1	TYR M 19		139.4	30	-33.541	27.689	1.00 40.66
ATOM			TYR M 1				-34.162	28.460	1.00 36.32
MOTA	9724	CD2				_	-34.534	28.475	1.00 44.15
MOTA	9725		TYR M 1					29.260	1.00 41.15
ATOM	9726	CE2	TYR M 1				-35.169		
MOTA	9727	CZ	TYR M 1				-35.347	29.257	1.00 44.17
MOTA	9728	OH	TYR M 1	96			-36.315	30.027	1.00 44.30
ATOM	9729	N	ALA M 1	97	141.3	320	-31.523	23.426	1.00 29.79
ATOM	9730	CA	ALA M 1		141.7	136	-30.527	22.444	1.00 28.69
ATOM	9731	c .	ALA M 1		140.6	551	-29.650	21.816	1.00 26.48
			ALA M 1				-30.122	21.261	1.00 23.73
ATOM	9732	0					-31.228	21.328	1.00 27:56
MOTA	9733	CB	ALA M 1					21.900	1.00 25.67
MOTA	9734	N	CYS M 1				-28.352		1.00 25.07
MOTA	9735	CA	CYS M 1				-27.425	21.324	
ATOM	9736	С	CYS M 1				-27.016	19.986	1.00 23.72
ATOM	9737	0	CYS M 1	.98			-26.593	19.903	1.00 20.48
MOTA	9738	CB	CYS M 1	.98			-26.214	22.278	1.00 29.94
MOTA	9739	SG	CYS M 1	.98	140.	537	-24.680	21.900	1.00 34.11
ATOM	9740	N	GLU M 1	99	139.	725	-27.155	18.942	1.00 23.97
ATOM	9741	CA	GLU M 1				-26.817	17.590	1.00 23.73
	9742	C	GLU M 1		139.		-25.585	17.051	1.00 20.94
MOTA	9743	Ö	GLU M 1				-25.621	16.939	1.00 17.54
ATOM			GLU M 1				-28.087	16.737	1.00 27.07
MOTA	9744	CB	GLU M 1				-27.944	15.260	1.00 42.17
MOTA	9745	CG					-28.920	14.353	1.00 49.07
ATOM	9746	CD	GLU M 1				-29.361	14.761	1.00 51.33
ATOM	9747	OE1							1.00 47.57
ATOM	9748	OE2					-29.239	13.240	
MOTA	9749	N	VAL M 2				-24.494	16.716	1.00 16.41
MOTA	9750	CA	VAL M 2				-23.283	16.238	1.00 10.32
MOTA	9751	С	VAL M 2	200			-22.979	14.787	1.00 10.03
MOTA	9752	0	VAL M 2				-23.093	14.331	1.00 9.57
ATOM	9753	CB	VAL M 2	200			-22.055	16.997	1.00 10.43
ATOM	9754	CG1	VAL M 2	200	141.	075	-22.303	17.685	1.00 7.21
MOTA	9755	CG2	VAL M 2	200	139.	856	-20.889	16.048	1.00 7.93
ATOM	9756	N	THR M 2	201	138.	489	-22.561	14.087	1.00 12.21
ATOM	9757	CA	THR M 2				-22.235	12.656	1.00 11.62
ATOM	9758	C	THR M 2				-20.809	12.637	1.00 8.83
	9759	ő	THR M 2				-20.478	13.389	1.00 11.99
ATOM	9760	СВ	THR M 2				-22.989	11.917	1.00 14.04
MOTA		OG]					-24.028	12.773	1.00 30.54
ATOM	9761						-23.650	10.696	1.00 16.53
ATOM	9762	CG2			137.	707	-19.991	11.798	1.00 13.16
MOTA	9763	N ·	HIS M 2						1.00 11.84
ATOM	9764	CÀ	HIS M 2				-18.539	11.700	1.00 8.25
MOTA	9765	С	HIS M :		139.	34/	-17.846	10.565	
MOTA	9766	0	HIS M 2				-17.994	10.462	1.00 11.44
ATOM	9767	CB	HIS M	202			-17.871	13.027	1.00 - 8.23
ATOM	9768	CG	HIS M	202	138.	835	-16.380	13.001	1.00 16.96
ATOM	9769	ND:	1 HIS M	202			-15.603	12.091	1.00 17.13
MOTA	9770	CD:	2 HIS M	202	138.	164	-15.514	13.796	1.00 22.44
MOTA	9771	CE	1 HIS M	202	139.	279	-14.325	12.325	1.00 16.56
ATOM	9772		2 HIS M				-14.244	13.352	1.00 24.96
ATOM	9773	N	GLN M				-17.057	9.757	1.00 7.43
ATOM	9774	CA					-16.312	8.627	1.00 5.01
ATOM	9775	C	GLN M		7 4 D	686	-15.992	8.743	1.00 8.12
ATOM	9776		GLN M				-16.205		1.00 11.13
ATOM	9777	CB			130	511	-14.984		1.00 2.00
					120	207 277	-14.464	7.133	1.00 2.00
ATOM	9778	CG	GLN M	203	130	. 502	. 17.101	55	

ATOM	9779	CD	GLN M	203	137.674 -13.151	7.144	1.00 8.87
ATOM	9780	OE1	GLN M	203	138.239 -12.114	6.810	1.00 13.14
ATOM	9781	NE2	GLN M		136.408 -13.182		1.00 23.13
					141.068 -15.420		1.00 10.25
MOTA	9782	N	GLY M				
ATOM	9783	CA	GLY M		142.461 -15.050		1.00 12.47
MOTA	9784	С	GLY M	204	143.329 -16.259	9.839	1.00 11.26
ATOM	9785	0	GLY M	204	144.146 -16.305	8.932	1.00 16.36
ATOM	9786	N	LEU M		143.136 -17.257		1.00 11.11
ATOM	9787	CA	LEU M		143.900 -18.476		1.00 13.66
ATOM	9788	С	LEU M		143.918 -18.973		1.00 15.61
ATOM	9789	0	LEU M		142.875 -19.142		1.00 16.97
ATOM	9790	CB	LEU M	205	143.312 -19.570	11.467	1.00 9.88
ATOM	9791	CG	LEU M	205	143.778 -19.492	12.928	1.00 10.92
ATOM	9792	CD1	LEU M	205	143.885 -18.020	13.353	1.00 4.73
ATOM	9793	CD2	LEU M		142.837 -20.294		1.00 10.57
MOTA	9794	N	SER M		145.117 -19.186		1.00 22.67
ATOM	9795	CA	SER M	206	145.253 -19.745		1.00 23.42
MOTA	9796	С	SER M	206	144.599 -21.139	7.341	1.00 19.36
MOTA	9797	0	SER M	206	144.138 -21.690	6.332	1.00 16.46
ATOM	9798	CB	SER M	206	146.726 -19.89		1.00 20.55
ATOM	9799	OG	SER M		146.806 -20.922		1.00 25.71
ATOM	9800	N	SER M		144.528 -21.682		1.00 15.04
MOTA	9801	CA	SER M		143.929 -22.982		1.00 24.06
ATOM	9802	С	SER M	207	143.655 -23.352	2 10.181	1.00 25.42
ATOM	9803	0	SER M	207	144.233 -22.774	1 11.124	1.00 28.52
ATOM	9804	СВ	SER M	207	144.794 -24.310	8.044	1.00 25.46
ATOM	9805	OG	SER M		145.849 -23.299		1.00 29.99
ATOM	9806	И	PRO M		142.722 -24.299		1.00 19.49
ATOM	9807	CA	PRO M		142.374 -24.719		1.00 15.17
MOTA	9808	С	PRO M		143.506 -25.00		1.00 12.08
ATOM	9809	0	PRO M	208	144.167 -26.01	12.535	1.00 13.93
ATOM	9810	CB	PRO M	208	141.507 -25.93	5 11.483	1.00 19.67
ATOM	9811	CG	PRO M	208	140.837 -25.64	1 10.187	1.00 20.87
ATOM	9812	CD	PRO M		141.892 -24.98		1.00 18.58
ATOM	9813	N	VAL M		143.650 -24.109		1.00 11.92
ATOM	9814	CA	VAL M		144.643 -24.170		1.00 13.48
ATOM	9815	С	VAL M		144.068 -25.10		1.00 18.15
ATOM	9816	0	VAL M	209	142.965 -24.86		1.00 21.44
MOTA	9817	CB	VAL M	209	144.832 -22.77		1.00 11.55
ATOM	9818	CG1	VAL M	209	145.548 -22.85	7 16.620	1.00 8.23
ATOM	9819	CG2	VAL M	209	145.597 -21.920		1.00 11.20
MOTA	9820	N	THR M		144.779 -26.172		1.00 21.96
ATOM	9821	CA	THR M		144.298 -27.06		1.00 20.89
ATOM	9822	С	THR M		145.166 -26.83		1.00 22.43
ATOM	9823	0	THR M		146.328 -26.53		
ATOM	9824	CB	THR M	210	144.435 -28.51	6 16.776	1.00 13.67
ATOM	9825	OG1	THR M	210	143.526 -28.84	15.722	1.00 14.27
ATOM	9826	CG2	THR M	210	144.153 -29.34		1.00 2.68
ATOM	9827	N	LYS M		144.616 -26.93		1.00 26.00
ATOM		CA					1.00 31.83
	9828		LYS M		145.414 -26.72		
ATOM	9829	С	LYS M		145.045 -27.813		1.00 33.60
ATOM	9830	0	LYS M		143.950 -27.81		1.00 37.15
MOTA	9831	CB	LYS M		145.160 -25.34		1.00 32.13
MOTA	9832	CG	LYS M	211	146.367 -24.74	4 22.120	1.00 37.81
ATOM	9833	CD	LYS M	211	147.375 -24.00		1.00 38.01
ATOM	9834	CE	LYS M		148.246 -22.99		1.00 39.58
ATOM	9835	NZ	LYS M		149.268 -23.64		1.00 40.83
ATOM	9836	N	SER M		145.969 -28.73		1.00 32.11
MOTA	9837	CA	SER M		145.692 -29.84		1.00 28.51
MOTA	9838	С	SER M	212	146.678 -29.98	1 23.931	1.00 27.57

								1 00 00 01
MOTA	9839	0	SER M	212	147.656		23.981	1.00 28.81
ATOM	9840	CB	SER M	212	145.696	-31.123	22.038	1.00 31.73
ATOM	9841	OG	SER M		146.722	-31.109	21.060	1.00 36.27
ATOM	9842	N	PHE M		146.395	-30.930	24.804	1.00 32.35
	9843	CA	PHE M		147.258		25.916	1.00 37.22
ATOM			PHE M		146.828		26.444	1.00 40.75
MOTA	9844	С			145.713		26.186	1.00 41.39
MOTA	9845	0	PHE M					1.00 37.15
ATOM	9846	CB	PHE M		147.122		27.014	
ATOM	9847	CG	PHE M		145.915		27.858	1.00 37.88
ATOM	9848		PHE M		144.786		27.647	1.00 40.00
MOTA	9849	CD2	PHE M	213	145.928	-31.319	28.908	1.00 40.33
ATOM	9850	CEl	PHE M	213	143.701	-29.796	28.472	1.00 39.12
ATOM	9851	CE2			144.835	-31.438	29.736	1.00 38.31
ATOM	9852	CZ	PHE M		143.726	-30.673	29.514	1.00 39.19
MOTA	9853	N	ASN M		147.711		27.186	1.00 46.33
	9854	CA	ASN M		147.384		27.746	1.00 51.34
ATOM					147.510		29.255	1.00 52.68
ATOM	9855	С	ASN M				29.781	1.00 50.93
ATOM	9856	0	ASN M		148.392			1.00 54.73
MOTA	9857	CB	ASN M		148.327		27.200	
ATOM	9858	CG	ASN M			-35.741	25.686	1.00 58.71
ATOM	9859		ASN M			-34.756	24.973	1.00 63.30
ATOM	9860	ND2	ASN M	214		-36.935	25.189	1.00 60.04
MOTA	9861	N	ARG M	215	146.617	-35.159	29.954	1.00 55.21
MOTA	9862	CA	ARG M	215	146.651	-35.134	31.411	1.00 59.78
ATOM	9863	С	ARG M	215	148.040	-35.520	31.936	1.00 61.63
ATOM	9864	ō	ARG M		148,668	-36.411	31.318	1.00 62.72
ATOM	9865	СВ	ARG M			-36.081	31.983	1.00 60.73
	9866	CG	ARG M			-36.275	31.095	1.00 63.16
ATOM			ARG M			-36.766	31.916	1.00 66.18
ATOM	9867	CD				-38.133	32.377	1.00 71.66
ATOM	9868	NE	ARG M				33.536	1.00 75.05
ATOM	9869	CZ	ARG M			-38.446		1.00 73.03
ATOM	9870		ARG M			-37.484	34.352	
MOTA	9871	NH2	ARG M			-39.721	33.868	1.00 79.58
ATOM	9872	OT	ARG M	215		-34.928	32.949	1.00 63.51
ATOM	9873	N	GLN X	1		-41.683	32.529	1.00 46.62
ATOM	9874	CA	GLN X	1	69.796	-41.418	31.744	1.00 46.87
ATOM	9875	С	GLN X	1		-39.945	31.889	1.00 43.77
ATOM	9876	0	GLN X	1	69.374	-39.406	33.007	1.00 48.44
MOTA	9877	CB	GLN X	1	68.653	-42.308	32.258	1.00 55.21
MOTA	9878	CG	GLN X	1	69.073	-43.519	33.121	1.00 65.73
ATOM	9879	CD	GLN X	ī		-44.839	32.736	1.00 71.25
ATOM	9880	OE1	GLN X			-45.611	33.611	1.00 71.23
ATOM	9881	NE2				-45.094	31.427	1.00 73.19
	9882	N	VAL X			-39.279	30.783	1.00 33.49
MOTA		-				-37.873	30.880	1.00 28.07
MOTA	9883	CA	VAL X			-37.812	31.238	1.00 23.89
ATOM	9884	С	VAL X				30.437	
ATOM	9885	0	VAL X			-38.221	-	1.00 22.27
MOTA	9886	CB	VAL X			-37.130	29.522	1.00 27.42
ATOM	_9887		VAL X			-38.063	28.389	1.00 26.38
MOTA	9888	CG2				-35.797	29.459	1.00 16.93
ATOM	9889	N	GLN X			-37.316	32.425	1.00 20.40
MOTA	9890	CA	GLN X		65.421	-37.230	32.770	1.00 21.59
ATOM	9891	С	GLN X			-35.942	33.402	1.00 23.73
ATOM	9892	ō	GLN X			-35.218	34.100	1.00 28.09
ATOM	9893	СВ	GLN X			-38.418	33.635	1.00 24.27
ATOM	9894	CG	GLN X			-38.529	34.989	1.00 32.39
			GLN X			-39.601	35.842	1.00 42.14
MOTA	9895	CD				-40.333	35.363	1.00 45.71
ATOM	9896	OE1				-40.333	37.115	1.00 48.46
ATOM	9897		GLN X					1.00 48.48
ATOM	9898	N	LEU X	4	63.633	-35.679	33.144	1.00 13.33

									1 00 16 27
MOTA	9899	CA	LEU X	4			-34.517	33.661	1.00 16.37
ATOM	9900	С	LEU X	4			-34.986	34.525	1.00 19.52
ATOM	9901	Ō	LEU X	4			-35.559	33.989	1.00 21.43
MOTA	9902	СВ	LEU X	4	6	2.383	-33.694	32.510	1.00 12.03
	9903	CG	LEU X	4	6	3.346	-33.031	31.536	1.00 13.70
MOTA		CD1	LEU X	4			-31.946	30.723	1.00 10.74
MOTA	9904	_		4			-32.402	32.311	1.00 15.40
ATOM	9905		LEU X	5			-34.710	35.832	1.00 17.65
MOTA	9906	N	VAL X				-35.120	36.693	1.00 12.57
ATOM	9907	CA	VAL X	5				37.199	1.00 14.21
ATOM	9908	С	VAL X	5			-34.010	38.164	1.00 20.37
ATOM	9909	0	VAL X	5			-33.347		
ATOM	9910	CB	VAL X	5			-35.816	37.850	
ATOM	9911	CG1	VAL X	5			-36.429	38.560	
MOTA	9912	CG2	VAL X	5			-36.839	37.362	1.00 12.40
MOTA	9913	N	GLN X	6			-33.811	36.530	1.00 16.58
ATOM	9914	CA	GLN X	6			-32.815	36.895	1.00 14.98
ATOM	9915	C	GLN X	6	5	6.968	-33.137	38.262	1.00 18.53
	9916	ő	GLN X	6			-34.280	38.781	1.00 14.92
MOTA	9917	СВ	GLN X	6			-32.748	35.795	1.00 12.66
ATOM			GLN X	6			-31.406	35.194	1.00 15.41
MOTA	9918	CG		6			-31.512	33.705	1.00 20.70
MOTA	9919	CD	GLN X				-32.492	33.085	1.00 21.38
MOTA	9920	OE1		6			-30.513	33.120	1.00 25.10
MOTA	9921	NE2		6			-32.110	38.813	1.00 21.34
MOTA	9922	N	SER X	7				40.124	1.00 17.82
MOTA	9923	CA	SER X	7			-32.176		1.00 17.02
MOTA	9924	С	SER X	7			-32.842	40.072	
MOTA	9925	0	SER X	7			-33.165	38.976	
MOTA	9926	CB	SER X	7		55.476	-30.769	40.691	1.00 15.68
ATOM	9927	OG	SER X	7		54.231	-30.237	40.249	1.00 23.32
ATOM	9928	N	GLY X	8			-33.001	41.271	1.00 15.33
ATOM	9929	CA	GLY X	8			-33.618	41.416	1.00 8.64
ATOM	9930	С	GLY X	8			-32.809	40.834	1.00 6.79
ATOM	9931	0	GLY X	8		51.382	-31.580	40.681	1.00 2.00
ATOM	9932	N	ALA X	9		50.191	-33.512	40.515	1.00 11.48
ATOM	9933	CA	ALA X	9		48.983	-32.893	39.956	1.00 15.20
MOTA	9934	C	ALA X	9			3 -31.843	40.928	1.00 16.59
ATOM	9935	Ö	ALA X	9			-31.898	42.136	1.00 17.93
	9936	СВ	ALA X	9			-33.949	39.676	1.00 13.96
ATOM	9937	N	GLU X	10		47.716	5 -30.867	40.404	1.00 19.13
ATOM		CA	GLU X	10			-29.823		1.00 28.15
MOTA	9938		GLU X	10			-29.550		1.00 31.97
ATOM	9939	С	GLU X	10		45 32	7 -29.483	39.741	1.00 32.05
ATOM	9940	0	GLU X	10			28.528		1.00 31.68
MOTA		CB				40.02°	7 -28.090		1.00 43.80
MOTA	9942					40.0J	4 -28.529	42.149	1.00 57.16
ATOM	9943			10		20.31	2 -28.569		1.00 59.15
MOTA	9944		1 GLU X	10		20.02	2 -20.303	43.186	1.00 64.65
MOTA	9945	OE	2 GLU X	10		50.95	7 -28.846	43.100	
MOTA	9946		VAL X	11		44.89	6 -29.420	41.989	
MOTA	9947			11		43.49	0 -29.060	41.792	
ATOM	9948	C	VAL X	11		43.34	7 -27.676	42.436	
ATOM	9949	0	VAL X	11		43.68	4 -27.475	43.598	
ATOM	9950	CB	VAL X	11		42.53	5 -30.060	42.412	
ATOM	9951	. CG	1 VAL X	11		41.37	1 -30.245	41.494	
ATOM	9952		2 VAL X	11		43.22	6 -31.389	42.601	
ATOM	9953		VAL X	12		42.90	7 -26.69	41.667	
MOTA	9954			12		42.80	5 -25.378	3 42.227	1.00 26.99
ATOM	9955		VAL X	12		41.59	9 -24.620) 41.714	
ATOM	9956		VAL X	12		41.18	0 -24.79	7 40.558	1.00 29.72
	9957			12		44.02	0 -24.58		
MOTA	9958		SI VAL X	12		44.11	6 -24.38	4 40.436	
MOTA	3330	,	- valu A						

MOTA	9959	CG2	VAL X	12	43.913 -23.	241 42.592	1.00 38.40
ATOM	9960	N	LYS X	13	41.041 -23.	798 42.609	1.00 29.96
ATOM	9961	CA	LYS X	13	39.858 -22.	995 42.333	1.00 27.75
ATOM	9962	C.	LYS X	13	40.260 -21.	861 41.430	1.00 23.43
ATOM	9963	0	LYS X	13	41.392 -21.		1.00 20.94
	9964	СВ	LYS X	13	39.264 -22.		1.00 32.59
ATOM				13	40.085 -22.		1.00 42.12
MOTA	9965	CG	LYS X	13	41.471 -22.		1.00 48.36
ATOM	9966	CD	LYS X		42.473 -22.		1.00 51.11
MOTA	9967	CE	LYS X	13	42.137 -24.		1.00 55.36
MOTA	9968	NZ	LYS X	13	39.345 -21.		1.00 19.29
ATOM	9969	N	PRO X	14			
MOTA	9970	CA	PRO X	14	39.562 -20.		
MOTA	9971	С	PRO X	14	40.191 -19.		1.00 22.45
MOTA	9972	0	PRO X	14	40.070 -19.		1.00 30.50
MOTA	9973	CB	PRO X	14	38.168 -20.		1.00 11.27
MOTA	9974	CG	PRO X	14	37.531 -21.		1.00 14.80
MOTA	9975	CD	PRO X	14	38.013 -22.		1.00 17.86
ATOM ·	9976	N	GLY X	15 .	40.858 -18.	.356 39.457	1.00 22.71
ATOM '	9977	CA	GLY X	15	41.494 -17	.167 39.995	1.00 27.51
ATOM	9978	С	GLY X		42.735 -17	.387 40.840	1.00 28.84
ATOM	9979	0	GLY X	15	43.543 -16.		1.00 30.94
ATOM	9980	N	ALA X		42.878 -18	.591 41.368	1.00 29.50
ATOM	9981	CA	ALA X		44.067 -18	.882 42.142	1.00 33.11
ATOM	9982	C	ALA X		45.301 -18		1.00 36.53
ATOM	9983	Ö	ALA X		45.267 -18		1.00 35.86
ATOM	9984	СВ	ALA X		43.903 -20		1.00 30.33
MOTA	9985	N	SER X	_	46.402 -19		1.00 36.78
	9986	CA.	SER X		47.627 -19		1.00 37.18
ATOM	9987	C.	SER X		48.380 -20		1.00 35.86
MOTA			SER X		48.324 -21		1.00 39.00
MOTA	9988	0				.242 41.181	1.00 43.06
MOTA	9989	CB	SER X			.162 40.505	1.00 56.54
MOTA	9990	OG	SER X			.337 40.590	1.00 32.92
ATOM	9991	N	VAL X			.525 40.945	1.00 32.32
ATOM	9992	CA	VAL X			.418 40.385	1.00 26.11
ATOM	9993	С	VAL		51.230 -22		1.00 23.55
ATOM	9994	0	VAL X				1.00 26.01
MOTA	9995	CB	VAL >		49.100 -23		1.00 24.53
ATOM	9996	CG1					1.00 24.93
MOTA	9997	CG2			49.858 -25		1.00 21.55
ATOM	9998	N	LYS >		52.202 -23		1.00 21.33
MOTA	9999	CA	LYS >			.990 40.669	
MOTA	10000	С	LYS >		54.220 -24		
ATOM	10001	0	LYS >		54.817 -24		1.00 8.40
MOTA	10002	CB	LYS >		54.455 -22		1.00 20.76
MOTA	10003	CG	LYS X		55.789 -21		
ATOM	10004	CD	LYS X		56.915 -22	.175 42.200	
ATOM	10005	CE	LYS X		57.892 -21		
MOTA	10006	NZ	LYS 2	(19	59.057 -21		
MOTA	10007	N	LEU ;	٤ 20_	54.143 -24		
ATOM	10008	CA	LEU 2	k 20	54.697 -26		
ATOM	10009	С	LEU 2	K 20	56.233 -26		
MO1'A	10010	0	LEU :		56.936 -25		
ATOM	10011	СВ	LEU :		54.212 -26	5.351 37.266	
ATOM	10012	CG	LĖU :		52.846 -26	5.966 37.206	
ATOM	10013		L LEU		51.984 -26	38.258	1.00 11.47
ATOM	10014		LEU :		52.304 -26		
ATOM	10015	N	SER		56.767 -27		
ATOM	10016	CA	SER :		58.202 -27		
ATOM	10017	C	SER :		58.618 -28	3.542 38.200	
ATOM	10018	Ö	SER		57.848 -29	38.023	
		_					

ATOM	10019	CB	SER X	21	58.690 -	-27.652	40.431	1.00 20.34
ATOM	10020	OG	SER X	21	59.174 -	-28.983	40.396	1.00 30.77
		N	CYS X	22	59.863 -		37.725	1.00 21.04
MOTA	10021				60.393 -		36.863	1.00 22.34
MOTA	10022	CA	CYS X	22				
ATOM	10023	С	CYS X	22	61.855 -		37.171	1.00 25.19
ATOM	10024	0	CYS X	22	62.599 -	-28.711	37.049	1.00 28.68
ATOM	10025	CB	CYS X	22	60.233 -	-29.139	35.409	1.00 19.31
ATOM	10026	SG	CYS X	22	61.200 -	-30.170	34.285	1.00 10.36
	10027	N	LYS X	23	62.254 -		37.603	1.00 27.71
ATOM				23	63.649		37.961	1.00 30.68
ATOM	10028	CA	LYS X					
MOTA	10029	С	LYS X	23	64.392 -		36.930	1.00 29.66
MOTA	10030	0	ras x	23	64.171 -		36.839	1.00 31.01
ATOM	10031	CB	LYS X	23	63.703 ·	-31.891	39.305	1.00 33.03
ATOM	10032	CG	LYS X	23	65.103	-32.223	39.789	1.00 39.66
ATOM	10033	CD	LYS X	23	65.136		41.328	1.00 50.37
				23	66.544		41.893	1.00 52.86
ATOM	10034	CE	LYS X					
MOTA	10035	NZ	LYS X	23	66.955		41.840	1.00 54.49
MOTA	10036	N	ALA X	24	65.307 ·		36.196	1.00 25.56
MOTA	10037	CA	ALA X	24	66.079		35.173	1.00 20.66
ATOM	10038	С	ALA X	24	67.210	-32.855	35.810	1.00 18.08
MOTA	10039	0	ALA X	24	67.525		36.980	1.00 19.73
ATOM	10040	СВ	ALA X	24	66.654		34.203	1.00 19.10
					67.831		35.025	1.00 17.53
ATOM	10041	N	SER X	25				
ATOM	10042	CA	SER X	25		-34.505	35.515	1.00 19.74
ATOM	10043	С	SER X	25	69.474		34.390	1.00 19.51
ATOM	10044	0	SER X	25	68.770	-35.709	33.423	1.00 21.74
ATOM	10045	CB	SER X	25	68.474	-35.349	36.703	1.00 21.47
ATOM	10046	OG	SER X	25	67.981		36.276	1.00 26.44
ATOM	10047	N	GLY X	26		-35.829	34.492	1.00 17.08
				26		-36.685	33.444	1.00 18.84
ATOM	10048	CA	GLY X					
ATOM	10049	С	GLY X	26		-35.924	32.338	1.00 18.78
MOTA	10050	0	GLY X	26		-36.514	31.329	1.00 16.29
MOTA	10051	N	TYR X	27	72.106	-34.608	32.520	1.00 13.59
ATOM	10052	CA	TYR X	27	72.766	-33.768	31.548	1.00 9.82
ATOM	10053	С	TYR X	27	73.113	-32.417	32.151	1.00 13.09
ATOM	10054	Ō	TYR X	27		-32.143	33.310	1.00 18.61
ATOM	10055	СВ	TYR X	27		-33.605	30.355	1.00 9.32
	10056		TYR X	27		-32.738	30.627	1.00 14.76
ATOM		CG		_				1.00 15.90
MOTA	10057	CD1	TYR X	27		-33.242	31.312	
MOTA	10058	CD2	TYR X	27		-31.423	30.138	1.00 13.72
ATOM	10059	CE1	TYR X	27		-32.465	31.490	1.00 19.27
ATOM	10060	CE2	TYR X	27	69.422	-30.642	30.313	1.00 15.11
MOTA	10061	CZ	TYR X	27	68.348	-31.162	30.975	1.00 18.07
ATOM	10062	ОН	TYR X	27	67.198	-30.400	31.036	1.00 20.88
ATOM	10063	N	ILE X	28		-31.575	31.388	1.00 14.48
ATOM	10064	CA	ILE X	28		-30.284	31.920	1.00 16.47
	10065	C				-29.397	31.778	1.00 17.31
ATOM			ILE X	28				
ATOM	10066	0	ILE X	28		-29.033	30.667	1.00 11.50
ATOM	10067	CB	ILE X	28		-29.682	31.184	1.00 20.63
ATOM	10068	CG1	ILE X	28		-30.431	31.598	1.00 16.22
ATOM	10069	CG2	ILE X	28	75.581	-28.167	31.542	1.00 23.29
ATOM	10070	CD1	ILE X	28	77.714	-30.249	30.604	1.00 22.94
ATOM	10071	N	PHE X	29		-29.066	32.940	1.00 17.97
ATOM	10072	CA	PHE X	29		-28.251	33.045	1.00 16.71
								1.00 16.71
ATOM	10073	С	PHE X	29		-26.990	32.225	
ATOM	10074	0	PHE X	29		-26.783	31.438	1.00 20.60
ATOM	10075	CB	PHE X	29		-27.885	34.509	1.00 11.80
ATOM	10076	CG	PHE X	29		-27.309	34.766	1.00 6.17
MOTA	10077	CD1	PHE X	29	68.476	-27.959	34.358	1.00 3.91
MOTA	10078	CD2	PHE X	29		-26.086	35.379	1.00 9.64
				"		-		

MOTA	10079	CEl	PHE X	29	67.289	-27.399	34.552	1.00	2.00
ATOM	10080	CE2	PHE X	29	68.322	-25.519	35.576	1.00	12.49
			PHE X	29		-26.176	35.159	1.00	7.88
ATOM	10081	CZ					32.426		15.89
MOTA	10082	N	THR X	30		-26.148			
MOTA	10083	CA	THR X	30		-24.845	31.750	1.00	
ATOM	10084	С	THR X	30	72.538		30.246	1.00	9.44
ATOM	10085	0	THR X	30	72.409	-23.905	29.555	1.00	9.24
ATOM	10086	СВ	THR X	30		-23.995	32.333	1.00	8.15
				30	74.647		31.819	1.00	
MOTA	10087	OG1	THR X		73.489		33.828	1.00	
MOTA	10088	CG2	THR X	30					
ATOM	10089	N	SER X	31	72.868		29.722	1.00	9.48
ATOM	10090	CA	SER X	31	73.138	-26.109	28.317	1.00	13.88
ATOM	10091	С	SER X	31	71.926	-26.413	27.467	1.00	16.47
ATOM	10092	O	SER X	31	72.043	-26.745	26.274	1.00	19.21
	10093	СВ	SER X	31	74.235		28.080		18.86
ATOM							28.969		23.51
MOTA	10094	OG	SER X	31	75.318				
MOTA	10095	N	TYR X	32		-26.344	28.068		13.99
MOTA	10096	CA	TYR X	32	69.561		27.262		10.54
ATOM	10097	С	TYR X	32	68.424	-25.624	27.564	1.00	10.77
MOTA	10098	0	TYR X	32	68.136	-25.300	28.721	1.00	14.86
	10099	СВ	TYR X	32		-28.008	27.380	1.00	3.33
ATOM						-28.864	26.794		10.93
ATOM	10100	CG	TYR X	32					
MOTA	10101	CD1	TYR X	32		-29.164	25.458		16.38
ATOM	10102	CD2	TYR X	32		-29.329	27.560	1.00	17.23
ATOM	10103	CEl	TYR Y	32	71.155	-29.915	24.892	1.00	20.42
MOTA	10104	CE2	TYR X	32	72.211	-30.075	27.009	1.00	19.92
ATOM	10105	CZ	TYR X	32		-30.367	25.678	1.00	19.34
	10105	ОН	TYR X	32	73.224		25.131		29.00
MOTA							26.524	1.00	5.72
ATOM	10107	N	TYR X	33		-25.124			
MOTA	10108	CA	TYR X	33		-24.296	26.803	1.00	8.12
ATOM	10109	С	TYR X	33	65.530		27.266	1.00	9.00
ATOM	10110	0	TYR X	33	65.265	-26.294	26.635	1.00	10.98
MOTA	10111	CB	TYR X	33	66.234	-23.539	25.551	1.00	8.76
ATOM	10112	CG	TYR X	33	66.900	-22.204	25.457	1.00	12.37
ATOM	10113	CD1	TYR X	33		2 -22.105	25.433	1.00	17.21
ATOM	10113	CD2	TYR X	33		3 -21.041	25.454		10.06
						-20.860	25.416	1.00	
ATOM	10115	CE1	TYR X	33					19.28
ATOM	10116	CE2	TYR X	33		-19.799	25.435		
ATOM	10117	CZ	TYR X	33		-19.716	25.419		19.52
ATOM	10118	OH	TYR X	33		-18.483	25.420		24.32
MOTA	10119	N	MET X	34	64.886	5 -24.918	28.380	1.00	9.86
ATOM	10120	CA	MET X	34	63.766	-25.696	28.920	1.00	7.06
ATOM	10121	С	MET X	34		-25.010	28.439	1.00	6.17
MOTA	10122	ŏ	MET X	34		3 -23.794	28.681	1.00	2.90
				34		-25.671	30.432	1.00	2.00
MOTA	10123	CB	MET X						
ATOM	10124	CG	MET X	34		-26.711	30.982	1.00	8.04
MOTA	10125	SD	MET X	34		-28.355	30.276	1.00	17.67
ATOM	10126	CE	MET X	34	64.103	3 -29.175	31.714	1.00	11.44
MOTA	10127	N	TYR X	35	61.655	-25.755	27.716	1.00	3.69
ATOM	10128	CA	TYR X	35		1 -25.218	27.204	1.00	6.93
ATOM	10129	C	TYR X	35		3 -25.668	28.143	1.00	10.68
				35		1 -26.387	29.118	1.00	18.18
ATOM	10130	0	TYR X						
ATOM	10131	СВ	TYR X	35		1 -25.831	25.865	1.00	8.81
MOTA	10132	CG	TYR X	35		3 -25.445	24.655	1.00	9.24
MOTA	10133	CD1	TYR X	35	61.85	3 -24.618	24.734	1.00	7.62
MOTA	10134	CD2	TYR X	35	60.323	3 -25.888	23.405	1.00	8.74
ATOM	10135	CE1		35		6 -24.238	23.608	1.00	5.57
ATOM	10136	CE2		35		8 -25.519	22.278	1.00	12.43
ATOM	10137	CZ	TYR X	35		8 -24.693	22.381		11.97
									24.30
MOTA	10138	ОН	TYR X	35	62.79	6 -24.431	21.234	1.00	24.30

ATOM	10139	N	TRP X	36	58.057 -25.297	27.796	1.00 7.17
		CA	TRP X	36	56.910 -25.718	28.547	1.00 7.57
MOTA	10140		TRP X	36	55.786 -25.831	27.528	1.00 13.84
ATOM	10141	С		36	55.544 -24.936	26.705	1.00 12.48
MOTA	10142	0	TRP X	36	56.589 -24.704	29.634	1.00 9.02
ATOM	10143	CB	TRP X			30.801	1.00 9.63
ATOM	10144	CG	TRP X	36	57.584 -24.729	30.878	1.00 14.14
ATOM	10145	CD1		36	58.769 -24.050		
ATOM	10146	CD2	TRP X	36	57.435 -25.396	32.062	1.00 5.81 1.00 7.93
ATOM	10147	NE1	TRP X	36	59.359 -24.252	32.103	
ATOM	10148	CE2	TRP X	36	58.558 -25.060	32.844	1.00 4.99
MOTA	10149	CE3	TRP X	36	56.458 -26.237	32.600	1.00 7.08
MOTA	10150	CZ2	TRP X	36	58.729 -25.526	34.125	1.00 13.32
ATOM	10151	CZ3	TRP X	36	56.627 -26.703	33.868	1.00 10.61
ATOM	10152	CH2	TRP X	36	57.756 -26.345	34.628	1.00 13.87
ATOM	10153	N	VAL X	37	55.085 -26.949	27.572	1.00 19.60
ATOM	10154	CA	VAL X	37	54.001 -27.183	26.624	1.00 19.27
ATOM	10155	С	VAL X	37	52.717 -27.530	27.346	1.00 20.33
ATOM	10156	Ō	VAL X	37	52.735 -28.350	28.258	1.00 22.56
ATOM	10157	СВ	VAL X	37	54.368 -28.330	25.721	1.00 15.58
ATOM	10158		VAL X	37	53.363 -28.463	24.621	1.00 14.05
MOTA	10159		VAL X	37	55.769 -28.101	25.192	1.00 10.74
ATOM	10160	N	LYS X	38	51.609 -26.926	26.927	1.00 18.17
	10161	CA	LYS X	38	50.328 -27.179	27.563	1.00 17.22
ATOM	10161		LYS X	38	49.576 -28.027	26.576	1.00 14.10
ATOM		C		38	49.719 -27.792	25.380	1.00 10.14
ATOM	10163	0	LYS X		49.595 -25.841	27.801	1.00 10.14
ATOM	10164	CB	LYS X	38		27.316	1.00 24.80
ATOM	10165	CG	LYS X	38	48.129 -25.748	28.453	1.00 27.64
ATOM	10166	CD	LYS X	38	47.129 -25.363		
ATOM	10167	CE	LYS X	38	46.658 -23.902	28.330	1.00 31.62
ATOM	10168	NZ	LYS X	38	46.563 -23.157	29.655	1.00 29.26
MOTA	10169	N	GLN X	39	48.809 -29.007	27.073	1.00 15.00
MOTA	10170	CA	GLN X	39	47.955 -29.892	26.234	1.00 17.98
MOTA	10171	С	GLN X	39	46.660 -30.041	27.042	1.00 20.85
MOTA	10172	0	GLN X	39	46.655 -30.583	28.160	1.00 19.09
MOTA	10173	CB	GLN X	39	48.594 -31.272	25.959	1.00 8.89
MOTA	10174	CG	GLN X	39	47.644 -32.255	25.324	1.00 6.61
ATOM	10175	CD	GLN X	39	48.271 -33.346	24.369	1.00 10.60
MOTA	10176	OE1	GLN X	39	49.134 -34.166	24.775	1.00 3.59
MOTA	10177	NE2	GLN X	39	47.788 -33.370	23.105	1.00 2.00
ATOM	10178	N	ALA X	40	45.575 -29.505	26.489	1.00 24.41
MOTA	10179	CA	ALA X	40	44.302 -29.544	27.173	1.00 27.67
ATOM	10180	С	ALA X	40	43.418 -30.622	26.643	1.00 36.64
ATOM	10181	0	ALA X	40	43.476 -30.967	25.449	1.00 33.38
ATOM	10182	CB	ALA X	40	43.603 -28.242	27.053	1.00 29.02
ATOM	10183	N	PRO X	41	42.570 -31.179	27.537	1.00 45.42
ATOM	10184	CA	PRO X	41	41.653 -32.245	27.145	1.00 46.57
MOTA	10185	С	PRO X	41	41.151 -32.029	25.714	1.00 44.88
ATOM	10186	ō	PRO X	41	40.507 -31.034	25.379	1.00 42.59
ATOM	10187	СВ	PRO X	41	40.571 -32.179	28.230	1.00 46.42
ATOM	101.88	CG	PRO X	41	41.359 -31.824	29.468	1.00 42.61
ATOM	10189	CD	PRO X	41	42.417 -30.838	28.973	1.00 45.65
MOTA	10100		GLY X	42	41.515 -32.957	24.849	1.00 48.12
ATOM	10190	N CA	GLY X	42	41.091 -32.842	23.473	1.00 56.54
				42	41.863 -31.749	22.777	1.00 60.29
MOTA	10192	С	GLY X		42.166 -31.869	21.587	1.00 63.68
MOTA	10193	0	GLY X	42	42.162 -30.676	23.502	1.00 60.59
ATOM	10194	N	GLN X	43			1.00 62.05
ATOM	10195	CA	GLN X	43	42.942 -29.590	22.934	1.00 62.03
ATOM	10196	C	GLN X	43	44.370 -30.131	22.607	1.00 61.34
ATOM	10197	0	GLN X	43	44.850 -31.086	23.251	1.00 62.00
MOTA	10198	CB	GLN X	43	43.002 -28.411	23.922	1.00 02.00

					40.075	07 051	00 063	1.00 64.76
MOTA	10199		GLN X	43		-27.051	23.263	1.00 65.41
MOTA	10200	CD	GLN X	43		-27.126	21.732	1.00 61.94
MOTA	10201	OE1	GLN X	43		-27.339	21.106	
ATOM	10202	NE2	GLN X	43		-26.962	21.129	1.00 63.50
MOTA	10203	N	GLY X	44		-29.528	21.613	1.00 55.97
ATOM	10204	CA	GLY X	44		-29.980	21.220	1.00 46.51
ATOM	10205	С	GLY X	44		-29.611	22.092	1.00 37.54
ATOM	10206	Ō	GLY X	44	47.450	-29.323	23.307	1.00 35.68
ATOM	10207	N	LEU X	45	48.740	-29.657	21.458	1.00 23.24
ATOM	10208	CA	LEU X	45	49.973	-29.304	22.116	1.00 14.52
ATOM	10209	C.	LEU X	45	50.198	-27.807	21.852	1.00 12.89
ATOM	10210	Õ	LEU X	45		-27.326	20.710	1.00 13.04
	10210	CB	LEU X	45		-30.109	21.533	1.00 14.26
MOTA	10211	CG	LEU X	45		-31.489	22.004	1.00 14.07
ATOM			LEU X	45		-31.943	23.101	1.00 21.43
ATOM	10213			45		-32.461	20.847	1.00 13.02
ATOM	10214	CD2	LEU X	46		-27.052	22.912	1.00 8.24
MOTA	10215	N	GLU X			-25.638	22.758	1.00 9.61
MOTA	10216	CA	GLU X	46		-25.258	23.451	1.00 15.24
MOTA	10217	С	GLU X	46		-25.693	24.586	1.00 22.42
MOTA	10218	0	GLU X	46				1.00 10.42
MOTA	10219	CB	GLU X	46		-24.866	23.404	
ATOM	10220	CG	GLU X	46		-24.759	22.622	
MOTA	10221	CD	GLU X	46		-23.427	22.848	1.00 22.19
MOTA	10222		GLU X	46		-23.195	23.950	1.00 30.87
MOTA	10223	OE2	GLU X			-22.591	21.920	1.00 20.69
MOTA	10224	N	TRP X	47		-24.445	22.794	1.00 12.42
MOTA	10225	CA	TRP X			-24.034	23.404	1.00 12.71
ATOM	10226	С	TRP X	47		-22.811	24.268	1.00 9.30
MOTA	10227	0	TRP X	47		-21.822	23.800	1.00 9.35
ATOM	10228	CB	TRP X	47		-23.715	22.313	1.00 13.60
ATOM	10229	CG	TRP X	47	56.490	-23.314	22.824	1.00 16.40
ATOM	10230	CD1	TRP X	47	57.493	-24.150	23.273	1.00 14.86
ATOM	10231	CD2	TRP X	47	57.006	-21.986	22.945	1.00 15.44
ATOM	10232	NE1	TRP X	47	58.589	-23.412	23.661	1.00 10.47
ATOM	10233	CE2	TRP X	47	58.313	-22.085	23.481	1.00 11.93
ATOM	10234	CE3			56.497	-20.720	22.660	1.00 20.97
ATOM	10235	CZ2			59.097	-20.973	23.733	1.00 15.42
ATOM	10236	CZ3			57.283	-19.613	22.908	1.00 21.21
MOTA	10237	CH2				-19.747	23.442	1.00 16.43
ATOM	10237	N	ILE X			-22.857	25.530	1.00 5.61
ATOM	10239	CA	ILE X		53.944		26.377	1.00 8.06
ATOM	10233	C	ILE X		55.148		26.265	1.00 8.82
ATOM	10240	0	ILE X		55.023		25.870	1.00 7.08
	10241	СВ	ILE X			-22.113	27.862	1.00 7.14
ATOM			ILE X			-22.806	28.041	1.00 6.25
ATOM	10243					-20.933	28.811	1.00 2.00
ATOM	10244	CG2			52.400	-23.894	29.124	1.00 8.19
ATOM	10245	CD1				5 -21.187	26.620	1.00 10.62
MOTA	10246	И	GLY >			$\frac{-21.107}{5}$ -20.325	26.578	1.00 9.29
ATOM	10247	CA	GLY >			3 - 20.323	26.695	1.00 9.45
MOTA	10248	С	GLY X				26.659	1.00 10.50
ATOM	10249	0	GLY >		50.83.	-22.355	26.830	1.00 7.56
MOTA	10250	N	GLU X		59.86.	20.346		1.00 7.10
MOTA	10251	CA	GLU X		61.17	20.945	26.955	1.00 7.10
ATOM	10252	С	GLU 3			5 -20.217	27.984	
MOTA	10253	0	GLU 3			3 -19.022	28.193	1.00 9.86
ATOM	10254	CB	GLU X		61.91	8 -20.862	25.659	1.00 5.87
ATOM	10255	CG	GLU X		62.40	6 -19.469	25.369	1.00 2.00
ATOM	10256	CD	GLU X		63.04	3 -19.400	24.008	1.00 2.00
ATOM	10257	OE:	L GLU Z	₹ 50		9 -20.457	23.524	1.00 9.00
MOTA	10258	OE2	GLU	ķ 50	63.11	0 -18.314	23.399	1.00 2.00

							00.5	20	20 616	1.00	4.51
MOTA	10259	N	ILE X	51	62	.899	-20.9	330	28.616	1.00 1	
ATOM	10260	CA	ILE X	51	63	.751	-20.3	301	29.606		
ATOM	10261	С	ILE X	51	65	.150	-20.8	380	29.446	1.00 1	
ATOM	10262	0	ILE X	51	65	.332	-22.0		29.313	1.00 2	
MOTA	10263	CB	ILE X	51	63		-20.5		31.059	1.00	8.55
ATOM	10264	CG1	ILE X	51			-19.		32.040	1.00	2.00
	10265	CG2	ILE X	51	63	.494	-22.	056	31.394	1.00	7.63
ATOM	10266	CD1	ILE X	51	63	.380	-19.3	126	33.162	1.00	6.58
MOTA	10267	N	ASN X	52	66	.155	-20.	028	29.435		14.13
MOTA		CA	ASN X	52	67	.502	-20.	550	29.344	1.00	13.36
ATOM	10268		ASN X	52	67	.819	-20.	687	30.827	1.00	6.52
MOTA	10269	C	ASN X	52	67	751	-19.	732	31.585	1.00	7.86
MOTA	10270	0		52	68	401	-19.	529	28.641	1.00	21.15
ATOM	10271	CB	ASN X	52	60	869	-19.	662	29.019	1.00	24.44
MOTA	10272	CG	ASN X		70	238	-20.	291	30.023	1.00	
MOTA	10273		ASN X	52	70	7.230	-19.	063	28.200	1.00	
ATOM	10274		ASN X	52		7.710	-21.	874	31.268	1.00	3.21
MOTA	10275	N	PRO X	53	60	3.1/O	-21.	060	32.707	1.00	9.69
ATOM	10276	CA	PRO X	53	6	3.432	~21.	225	33.151	1.00	8.34
ATOM	10277	С	PRO X	53	6:	3.728	-21.	223	34.291		12.06
MOTA	10278	0	PRO X	53	6	3.863	-20.	790			10.00
MOTA	10279	CB	PRO X	53	6	3.346	-23.	356	33.107		8.84
ATOM	10280	CG	PRO X	53	6	B.662	-24.	107	31.874	1.00	6.05
ATOM	10281	CD	PRO X	53	6	8.386	-23.	192	30.657	1.00	
ATOM	10282	N	SER X	54			-21.		32.275	1.00	10.97
ATOM	10283	CA	SER X	54	7	1.972	-20.	. 587	32.664	1.00	15.57
ATOM	10284	С	SER X	54	7	1.766	-19.	.118	32.985	1.00	16.77
ATOM	10285	0	SER X	54	7	2.333	-18	.538	33.926		13.83
ATOM	10286	СB	SER X	54	7	2.981	-20	.711	31.515		16.48
ATOM	10287	OG	SER X	54		3.512			31.153		19.14
MOTA	10288	N	ASN X	55	7	0.912	2 -18	.547	32.159		19.69
ATOM	10289	CA	ASN X	55	7	0.563	3 -17	.145	32.161		20.23
ATOM	10290	C	ASN X	55	6	9.509	-16	.568	33.125		20.67
ATOM	10291	ŏ	ASN X	55	6	9.760) -15	.596	33.864		17.94
MOTA	10292	СВ	ASN X	55			3 -16		30.732		24.40
				55	7	0.75	7 -15	.574	30.214		32.25
MOTA		_	1 ASN X	55	-	1.39	0 -14	.824	30.963		25.01
MOTA			2 ASN X		-	0.58	1 -15	.325	28.914		37.14
MOTA MOTA			GLY X		€	8.30	8 -17	.145	33.027		21.44
					6	57.16	2 -16	.697	33.787		15.73
MOTA		_	GLY X			6.29	5 -16	.075	32.713	1.00	10.77
ATOM			GLY X			55.13	3 -15	.858	32.931		13.77
ATOM			ASP X			56.90	9 -15	.787	31.564	1.00	10.36
ATOM						56.30	4 -15	.200	30.370	1.00	
ATOM			ASP X			55.16	1 -16	.084	29.831	1.00	
ATOM			ASP X			65 25	2 -17	.333	29.818	1.00	
ATOM						67 40	8 -15	.041	29.340		10.94
MOTA						66 98	5 -14	.241			12.37
MOTA						60.50	7 -14	1.420			17.72
ATOM			1 ASP X			$\epsilon \epsilon \circ \Delta t$	7 -13	2 447	28.389		
ATOM			2 ASP X			64.09	0 -15	125	29.386		
MOTA						64.05	2 -16	1112			
ATON	4 10309	CA				62.85	7 -10	614			
MOTA			THR >			02.20	35 -15	7. UI4			
MOTA	4 1031		THR >			62.60)1 -14	4.33/			
OTA		2 C				61.72	21 -10	0.013			
ATO	M 1031		G1 THR X			ρT.08	38 -1	4.142			
OTA		4 C	G2 THR 2			62.1	76 -1	0.135	31.372		
ATO		5 N	ASN X			61.3	11 -1	6.384	27.12		
ATO		6 C.				60.6	34 -1	5.988	25.90		
ATO			ASN :			59.3	75 -1	6.67	25.90		0 16.59
ATO			ASN :	x ⁻ 59		59.3	58 -1	7.90	26.01	, 1.0	0 10.35

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MOTA	10319	CB	ASN X	59	61.522	-16.406	24.709	1.00 2.00
ATOM	10320	CG	ASN X	59		-15.369	24.379	1.00 2.00
MOTA	10321	OD1	ASN X	59		-14.264	24.002	1.00 11.22
ATOM	10322		ASN X	59	63.793	-15.681	24.570	1.00 11.22
MOTA	10323	N	PHE X	60	58.286	-15.914	25.791	1.00 2.00
ATOM	10324	CA	PHE X	60		-16.498	25.812	1.00 2.80
MOTA	10325	C	PHE X	60		-16.512	24.528	1.00 2.00
	10325	Ö	PHE X	60		-15.800	23.608	1.00 5.72
MOTA	10325	CB	PHE X	60	56.093	-15.800	26.862	1.00 2.00
MOTA	10327	CG	PHE X	60	56,553	-16.039	28.258	1.00 2.00
MOTA	10328		PHE X	60		-15.426	28.731	1.00 2.00
MOTA		CD2	PHE X	60		-16.902	29.094	1.00 2.73
MOTA	10330	CE1	PHE X	60		-15.670	30.018	1.00 2.06
MOTA	10331	CE2	PHE X	60		-17.157	30.391	1.00 4.01
MOTA	10332	CZ	PHE X		57.440	-16.547	30.855	1.00 4.07
MOTA	10333	N N	ASN X			-17.353	24.463	1.00 3.41
ATOM	10334		ASN X			-17.369	23.314	1.00 4.95
MOTA	10335	CA	ASN X		53.363	-16.222	23.753	1.00 7.86
ATOM	10336	С	ASN X			-16.240	24.877	1.00 4.55
ATOM	10337	0	ASN X			-18.640	23.303	1.00 3.80
ATOM	10338	CB				-18.601	22.269	1.00 5.24
MOTA	10339	CG	ASN X			-17.535	21.682	1.00 2.00
MOTA	10340	OD1				-19.777	22.020	1.00 3.56
MOTA	10341	ND2				-15.199	22.919	1.00 10.94
MOTA	10342	И	GLU X			-14.053	23.244	1.00 12.79
ATOM	10343	CA	GLU X			-14.535	23.879	1.00 13.92
ATOM	10344	C	GLU X			-14.088	24.956	1.00 15.22
ATOM	10345	0	GLU X			-13.281	21.971	1.00 14.76
MOTA	10346	CB	GLU >			-11.801	22.073	1.00 22.15
ATOM	10347	CG	GLU >			-11.418	22.368	1.00 34.66
ATOM	10348	CD	GLU }			-10.970	23.514	1.00 41.43
ATOM	10349	OE3				-11.581	21.437	1.00 41.99
MOTA	10350	OE2				3 -15.487	23.215	1.00 16.02
MOTA	10351	N	LYS X		40 160	-16.055	23.682	1.00 15.35
ATOM	10352	CA	LYS X		49.222		25.156	1.00 17.51
ATOM	10353	C	LYS X			-16.787	25.712	1.00 25.66
ATOM	10354	0	LYS X			-17.238	22.784	1.00 18.29
ATOM	10355	CB	LYS X		48.052		23.452	1.00 28.88
MOTA	10356	CG	LYS		46.52		23.372	1.00 46.63
MOTA		CD	LYS			4 -19.180	24.231	1.00 48.94
ATOM		CE	LYS :			9 -19.401	23.743	1.00 48.82
MOTA		NZ	PHE			3 -16.469	25.808	1.00 18.07
ATOM		N	PHE :			6 -16.850	27.239	1.00 16.52
ATOM		CA				4 -15.904	28.067	1.00 20.43
ATOM		С	PHE			5 -16.164	29.244	1.00 21.76
MOTA			PHE		51 11	1 -18.206	27.424	1.00 8.71
ATOM			PHE		50 28	0 -19.324	26.955	1.00 8.49
MOTA			PHE		50.20	8 -19.548	25.584	1.00 11.24
ATOM			1 PHE		49.74	2 -20.201	27.873	1.00 3.43
ATOM			2 PHE		10 33	1 -20.677	25.131	1.00 11.58
MOTA			1 PHE		49.55	6 -21.315		1.00 8.25
ATOM			2 PHE		49.00	6 - 21.560		1.00 11.33
ATOM						6 - 21.300 $6 - 14.827$		1.00 25.65
ATOM			LYS		51.76	6 -14.827 7 -13.867	28.141	1.00 25.79
MOTA					52.00	4 -13.506	29.529	
ATOM		_	LYS		52.08	0 -13.243	30.440	
ATOM			LYS		52.87	5 - 12.604	27.299	
ATOM					52.76	8 -12.004	27.261	
ATOM					54.18	0 -12.00/	28.677	
ATOM					54./6	6 -11.885 8 -13.101	29.123	
MOTA	1 10378	CE	LYS	X 65	55.60	-13.101	. 27.123	2.00 00.00

								- 00 54 00
ATOM	10379	NZ	LYS X	65	55.242		30.455	1.00 54.89
MOTA	10380	N	SER X	66	50.758		29.687	1.00 29.95
ATOM	10381	CA	SER X	66	50.088		30.960	1.00 30.56
ATOM	10382	С	SER X	66	49.968		31.945	1.00 27.56
ATOM	10383	Ō	SER X	66		-14.212	33.126	1.00 32.00
ATOM	10384	CB	SER X	66	48.693	-12.692	30.673	1.00 31.16
ATOM	10385	OG	SER X	66	48.041	-13.694	29.910	1.00 43.93
	10386	N	LYS X	67		-15.510	31.462	1.00 24.26
ATOM ATOM	10387	CA	LYS X	67		-16.665	32.336	1.00 25.61
ATOM	10387	C	LYS X	67		-17.259	32.958	1.00 28.71
	10388	0	LYS X	67		-17.742	34.101	1.00 30.00
MOTA	10309	CB	LYS X	67		-17.792	31.577	1.00 23.01
MOTA	10390	CG	LYS X	67		-18.234	32.196	1.00 31.79
MOTA	10391	CD	LYS X	67		-17.200	31.975	1.00 37.06
MOTA		CE	LYS X	67		-17.837	31.371	1.00 35.14
ATOM	10393	NZ	LYS X	67		-17.345	29.973	1.00 41.07
ATOM	10394		ALA X	68		-17.237	32.237	1.00 26.24
ATOM	10395	N		68		-17.913	32.772	1.00 21.60
MOTA	10396	CA	ALA X	68		-17.098	33.282	1.00 17.55
ATOM	10397	С	ALA X	68		-15.950	32.920	1.00 22.76
MOTA	10398	0	ALA X			-18.941	31.752	1.00 22.22
MOTA	10399	СВ	ALA X	68 69		-17.720	34.121	1.00 12.21
ATOM	10400	N	THR X			-17.062	34.702	1.00 14.74
ATOM	10401	CA	THR X	69		-18.115	34.881	1.00 20.13
MOTA	10402	C	THR X	69		-18.798	35.918	1.00 21.87
ATOM	10403	0	THR X	69			36.057	1.00 13.80
MOTA	10404	CB	THR X	69		-16.519 -16.040	36.026	1.00 26.91
MOTA	10405	OG1		69			36.449	1.00 13.12
MOTA	10406	CG2		69		-15.434	33.855	1.00 20.34
ATOM	10407	N	LEU X	70		-18.239	33.832	1.00 11.56
MOTA	10408	CA	LEU X	70		-19.182	34.725	1.00 11.30
MOTA	10409	С	LEU X	70		-18.675	34.762	1.00 3.00
MOTA	10410	0	LEU X	70		-17.476	32.400	1.00 11.02
MOTA	10411	CB	TEA X	70		-19.312	31.505	1.00 3.22
MOTA	10412	CG	LEU X	70		-19.749	30.273	1.00 3.22
MOTA	10413	CD:		70		-20.417		1.00 5.11
MOTA	10414	CD2		70		-20.769	32.271 35.458	1.00 4.43
MOTA	10415	N	THR X	71		-19.582	36.392	1.00 5.71
MOTA	10416	CA	THR X	71		-19.221	36.654	1.00 3.71
MOTA	10417	С	THR X	71		-20.495		1.00 2.07
ATOM	10418	0	THR X	71		-21.562	36.372	1.00 5.72
ATOM	10419	CB	THR X	71		-18.688	37.740	1.00 7.31
ATOM	10420	OG		71		-19.497	38.838 37.706	1.00 7.31
MOTA	10421	CG	2 THR X	71	59.934	-18.779	37.768	1.00 13.43
ATOM	10422		VAL X	72	64.058	-20.433		1.00 8.37
ATOM					64.771	-21.700	37.386	1.00 0.57
MOTA	10424	С	VAL X		65.737	-21.605	38.534	1.00 12.34
MOTA			VAL X		66.187	-20.524	38.874	1.00 17.14
MOTA					65.617	7 -22.185	36.106	1.00 15.98
MOTA			1 VAL X		65.135	-21.535	34.791	
ATOM			2 VAL X		67.05	7 -21.814	36.262	
ATOM	10429		ASP X		66.070	-22.741	39.123	1.00 18.24
ATOM					67.029	-22.755	40.207	1.00 24.14
ATOM			ASP X		68.24	7 -23.502	39.733	1.00 28.90
ATOM			ASP X			2 -24.678		1.00 30.43
ATOM						9 -23.501		1.00 25.63
ATOM	10434				67.633	3 -23.757	42.409	
ATOM			1 ASP X		68.72	7 -23.188	42.244	1.00 31.37
ATOM		OD	2 ASP X		67.42	5 -24.518	43.358	
ATOM	10437		LYS X		69.06	3 -22.824	38.913	
MOTA	10438	3 CA	LYS X	74	70.31	6 -23.343	38.373	1.00 22.71

ATOM	10439	С	LYS X	74	70.912 -24.356	39.365	1.00 22.07
ATOM	10440	ō	LYS X	74	71.202 -25.503	39.009	1.00 20.39
			LYS X	74	71.277 -22.168	38.209	1.00 27.20
ATOM	10441	CB		74	72.036 -22.069	36.921	1.00 27.13
MOTA	10442	CG	LYS X	74.	73.345 -21.301	37.201	1.00 34.04
ATOM	10443	CD	LYS X		73.373 -19.911	36,548	1.00 36.91
MOTA	10444	CE	LYS X	74			1.00 37.11
MOTA	10445	NZ	LYS X	74	74.550 -19.751	35.638	
MOTA	10446	N	SER X	75	71.059 -23.947	40.625	
MOTA	10447	CA	SER X	75	71.639 -24.835	41.606	1.00 21.80
MOTA	10448	С	SER X	75	70.905 -26.146	41.686	1.00 24.42
MOTA	10449	0	SER X	75	71.500 -27.183	41.481	1.00 30.44
ATOM	10450	CB	SER X	75	71.640 -24.206	42.984	1.00 22.20
MOTA	10451	OG	SER X	75	71.015 -25.093	43.893	1.00 32.57
ATOM	10452	N	ALA X	76	69.617 -26.113	41.995	1.00 25.64
ATOM	10453	CA	ALA X	76	68.861 -27.349	42.108	1.00 24.29
ATOM	10454	C	ALA X	76	68.519 -27.977	40.745	1.00 23.30
MOTA	10455	Ö	ALA X	76	67.772 -28.958	40.665	1.00 19.57
	10456	СВ	ALA X	76	67.608 -27.090	42.896	1.00 30.37
ATOM			SER X	77	69.087 -27.430	39.676	1.00 22.84
ATOM	10457	N		77	68.803 -27.946	38.340	1.00 22.86
ATOM	10458	CA	SER X		67.288 -28.096	38.148	1.00 18.23
ATOM	10459	С	SER X	77			1.00 15.54
MOTA	10460	0	SER X	77	66.793 -29.167	37.794	1.00 13.34
ATOM	10461	CB	SER X	77	69.468 -29.301	38.179	
ATOM	10462	OG	SER X	77	69.258 -29.785	36.871	1.00 33.75
ATOM	10463	N	THR X	78	66.550 -27.021	38.379	1.00 14.84
ATOM	10464	CA	THR X	78	65.106 -27.120	38.304	1.00 13.98
ATOM	10465	С	THR X	78	64.467 -25.879	37.681	1.00 16.74
ATOM	10466	0	THR X	78	64.915 -24.739	37.885	1.00 20.89
ATOM	10467	CB	THR X	78	64.492 -27.311	39.767	1.00 11.87
ATOM	10468	OG1	THR X	78	64.875 -28.573	40.344	1.00 5.70
ATOM	10469	CG2	THR X	78	62.994 -27.235	39.720	1.00 5.45
ATOM	10470	N	ALA X	79	63.387 -26.098	36.950	1.00 12.22
MOTA	10471	CA	ALA X	79	62.695 -24.981	36.357	1.00 12.86
	10472	C	ALA X	79	61.363 -24.959	37.042	1.00 14.06
MOTA		0	ALA X	79	60.989 -25.945	37.654	1.00 17.24
ATOM	10473		ALA X	79	62.504 -25.189	34.903	1.00 12.41
MOTA	10474	CB			60.655 -23.842	36.938	1.00 15.46
ATOM	10475	N	TYR X	80		37.549	1.00 15.40
ATOM	10476	CA	TYR X	80	59.342 -23.680		1.00 20.04
ATOM	10477	С	TYR X	80	58.444 -22.818	36.689	
MOTA	10478	0	TYR X	80	58.881 -21.809	36.117	1.00 25.95
MOTA	10479	CB	TYR X	80	59.471 -22.984	38.881	1.00 17.00
MOTA	10480	CG	TYR-X	80	60.387 -23.663	39.851	1.00 17.32
MOTA	10481	CD1		80	59.884 -24.357	40.927	1.00 18.22
MOTA	10482	CD2	TYR X	80	61.754 -23.555	39.737	1.00 16.28
ATOM	10483	CE1	TYR X	80	60.725 -24.927	41.881	1.00 21.28
MOTA	10484	CE2	TYR X	80	62.593 -24.122	40.685	1.00 21.89
MOTA	10485	CZ	TYR X	80	62.070 -24.809	41.761	1.00 20.45
ATOM	10486	ОН	TYR X	80	62.879 -25.394	42.710	1.00 21.46
MOTA	10487	N	MET X	81	57.169 -23.191	36.640	1.00 23.16
ATOM	10488	CA	MET X	81	56.182 -22.443	35.869	1.00 25.52
ATOM	10489	C	MET X	81	55.127 -21.955		1.00 26.99
ATOM	10490	Õ	MET X	81	54.679 -22.717		1.00 26.91
ATOM	10491	CB	MET X	81	55.493 -23.308		1.00 17.74
	•				54.483 -22.516		1.00 11.03
ATOM	10492	CG	MET X	81	54.197 -23.250		1.00 14.03
ATOM	10493	SD	MET X	81			1.00 14.03
MOTA	10494	CE	MET X	81	53.324 -24.765		1.00 10.07
ATOM		N	GLU X	82	54.740 -20.691		1.00 27.93
ATOM	10496	CA	GLU X	82	53.715 -20.171		1.00 31.07
ATOM		С	GLU X	82	52.571 -19.632		
ATOM	10498	0	GLU X	82	52.666 -18.569	36.147	1.00 31.48

MOTA	10499	СВ	GLU X	82	54.262 -19.066	38.491	1.00 35.59
ATOM	10500	CG	GLU X	82	53.440 -18.812	39.734	1.00 48.87
ATOM	10501	CD	GLU X	82	54.056 -17.740	40.616	1.00 58.36
				82	55.205 -17.948	41.078	1.00 65.37
ATOM	10502	OE1	GLU X				1.00 63.37
MOTA	10503	OE2	GLU X	82	53.404 -16.692	40.845	
MOTA	10504	N	LEU X	83	51.475 -20.377	36.774	1.00 33.28
MOTA	10505	CA	PER X	83	50.287 -19.943	36.065	1.00 34.75
ATOM	10506	С	LEU X	83	49.482 -19.157	37.122	1.00 33.00
MOTA	10507	0	LEU X	83	49.382 -19.555	38.290	1.00 30.64
ATOM	10508	CB	LEU X	83	49.518 -21.156	35.543	1.00 34.44
ATOM	10509	CG	LEU X	83	50.445 -22.086	34.763	1.00 31.57
ATOM	10510	CD1	LEU X	83	49.900 -23.504	34.665	1.00 31.05
ATOM	10511	CD2	LEU X	83	50.612 -21.490	33.391	1.00 32.59
			SER X	84	48.949 -18.014	36.728	1.00 31.47
ATOM	10512	N				37.677	1.00 33.70
ATOM	10513	CA	SER X	84	48.224 -17.216		
ATOM	10514	С	SER X	84	46.881 -16.828	37.102	1.00 35.25
ATOM	10515	0	SER X	84	46.689 -16.909	35.875	1.00 33.53
ATOM	10516	CB	SER X	84	49.057 -15.981	38.023	1.00 36.91
ATOM	10517	OG	SER X	84	49.865 -15.580	36.924	1.00 46.07
ATOM	10518	N	SER X	85	45.976 -16.413	38.001	1.00 32.85
ATOM	10519	CA	SER X	85	44.635 -15.997	37.642	1.00 31.64
ATOM	10520	С	SER X	85	44.096 -17.054	36.698	1.00 30.79
ATOM	10521	ō	SER X	85	43.807 -16.793	35.526	1.00 29.08
ATOM	10522	СВ	SER X	85	44.668 -14.618	36.970	1.00 36.25
ATOM	10523	OG	SER X	85	45.738 -14.495	36.034	1.00 45.56
				86	43.966 -18.259	37.229	1.00 49.30
ATOM	10524	N	LEU X				
MOTA	10525	CA	LEU X	86	43.487 -19.379	36.449	1.00 28.04
MOTA	10526	С	LEU X	86	42.003 -19.338	36.162	1.00 26.35
ATOM	10527	0	LEU X	86	41.205 -19.274	37.070	1.00 25.96
MOTA	10528	CB	LEU X	86	43.818 -20.668	37.169	1.00 26.65
ATOM	10529	CG	LEU X	86	45.320 -20.839	37.221	1.00 27.12
MOTA	10530	CD1	LEU X	86	45.745 -21.605	38.442	1.00 29.11
MOTA	10531	CD2	LEU X	86	45.733 -21.535	35.952	1.00 26.23
MOTA	10532	N	ARG X	87	41.654 -19.350	34.884	1.00 26.89
MOTA	10533	CA	ARG X	87	40.275 -19.376	34.455	1.00 26.46
ATOM	10534	С	ARG X	87	40.066 -20.862	34.398	1.00 24.82
ATOM	10535	0	ARG X	87	40.932 -21.614	34.815	1.00 17.18
ATOM	10536	СВ	ARG X	87	40.098 -18.814	33.044	1.00 34.47
ATOM	10537	CG	ARG X	87	40.648 -17.418	32.788	1.00 45.70
ATOM	10538	CD	ARG X	87	41.493 -17.390	31.500	1.00 53.71
				87	40.687 -17.368	30.281	1.00 59.40
ATOM	10539	NE	ARG X		-		1.00 55.40
ATOM	10540	CZ	ARG X	87	39.923 -16.343	29.920	
ATOM	10541	NHl		87	39.861 -15.259	30.684	1.00 67.88
ATOM	10542		ARG X	87	39.230 -16.390	28.788	1.00 67.38
ATOM	10543	N	SER X	88	38.906 -21.282	33.915	1.00 31.09
ATOM	10544	CA	SER X	88	38.608 -22.713	33.807	1.00 37.33
ATOM	10545	С	SER X	88	39.279 -23.370	32.598	1.00 34.75
ATOM	10546	0	SER X	88	39.710 -24.534	32.665	1.00 33.32
ATOM	10547	CB	SER X	88	37.085 -22.957	33.752	1.00 38.51
ATOM	10548	OG	SER X	88	36.677 -23.439	32.473	1.00 44.05
ATOM	10549	N	GLU X	89	39.365 -22.638	31.498	1.00 28.61
ATOM	10550	CA	GLU X	89	39.996 -23.187	30.322	1.00 31.29
ATOM	10551	C	GLU X	89	41.513 -23.370	30.486	1.00 32.65
	10551			89	42.180 -23.791	29.553	1.00 32.61
ATOM		O	GLU X			29.141	1.00 32.01
ATOM	10553	CB	GLU X	89	39.712 -22.297		1.00 34.33
ATOM	10554	CG	GLU X	89	38.347 -21.708	29.223	
ATOM	10555	CD	GLU X	89	38.311 -20.511	30.114	1.00 47.52
ATOM	10556		GLU X	89	37.281 -20.333	30.804	1.00 54.79
MOTA	10557	OE2	GLU X	89	39.313 -19.757	30.119	1.00 47.95
MOTA	10558	N	ASP X	90	42.049 -23.078	31.676	1.00 33.11

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ATOM	10559	CA	ASP X	90	43.4	177 ·	-23.229	31.954	1.00 2	
	10560	C	ASP X	90	43.	173 -	-24.667	32.326	1.00 2	
MOTA				90	44.9	970	-25.039	32.461	1.00 3	31.09
MOTA	10561	0	ASP X		42.6	an .	-22.332	33.116	1.00 3	30.21
ATOM	10562	СВ	ASP X	90	43.0	200	20.001	32.666	1.00 3	
MOTA	10563	CG	ASP X	90	44	182	-20.921			33.24
MOTA	10564	ODl	ASP X	90	44.	156	-20.712	31.439		
ATOM	10565	OD2	ASP X	90	44.	441	-20.025	33.504	1.00	
	10566	N	THR X	91	42.	741	-25.474	32.526		35.65
MOTA				91	42	922	-26.882	32.886	1.00	34.07
MOTA	10567	CA	THR X		42.	560	-27.619	31.729	1.00	28.78
MOTA	10568	С	THR X	91	43.	177	-27.414	30.577	1.00	
MOTA	10569	0	THR X	91	43.	1//	-27.414		1.00	
MOTA	10570	CB	THR X	91	41.	542	-27.603	33.214		
ATOM	10571	OG1	THR X	91	40.	745	-26.798	34.106		36.01
ATOM	10572	CG2		91	41.	796	-28.985	33.834		33.09
	10572	N	ALA X	92	44.	535	-28.477	32.061	1.00	
MOTA				92	45	251	-29.308	31.091	1.00	22.38
MOTA	10574	CA	ALA X		45.	402	-29.973	31.683	1.00	
MOTA	10575	С	ALA X	92	46.	492	-29.373		1.00	
MOTA	10576	0	ALA X	92			-29.996	32.905	1.00	
MOTA	10577	CB	ALA X	92	45.		-28.479	29.917		
ATOM	10578	N	VAL X	93	47.	320	-30.554	30.814	1.00	
	10579	CA	VAL X	93	48.	578	-31.115	31.292		18.17
ATOM			VAL X	93	49	720	-30.238	30.768	1.00	21.31
MOTA	10580	С			40	792	-29.882	29.576	1.00	17.16
MOTA	10581	0	VAL X	93			-32.530	30.904	1.00	9.29
MOTA	10582	СВ	VAL X	93					1.00	2.00
ATOM	10583	CG1	. VAL X	93			-33.015	31.595		
MOTA	10584	CG2	VAL X	93			-33.343	31.370		16.72
ATOM	10585	N	TYR X	94	50.	552	-29.833	31.722		21.60
	10586	CA	TYR X	94	51.	679	-28.965	31.495		19.13
ATOM			TYR X	94			-29.835	31.511		19.80
ATOM	10587	С					-30.526	32.478	1.00	21.75
ATOM	10588	0	TYR X	94			-27.905	32.596		20.94
MOTA	10589	CB	TYR X	94				32.466		26.11
MOTA	10590	CG	TYR X	94	50	.536	-26.964			23.72
ATOM	10591	CD.	l TYR X	94			-27.268	33.020		
ATOM	10592	CD2	2 TYR X	94			-25.837	31.655		30.74
ATOM	10593		1 TYR X	94	48	.150	-26.455	32.735		26.48
	10594		2 TYR X	94	49	.530	-25.024	31.365		30.66
ATOM			TYR X				-25.325	31.888	1.00	28.06
MOTA	10595	CZ					-24.476	31.510	1.00	20.97
ATOM	10596	OH	TYR X		4 /	612	-29.814	30.395		19.96
MOTA	10597	И	TYR X					30.213		14.55
MOTA	10598	CA					-30.601			13.43
MOTA	10599	С	TYR X	95	55	.998	-29.684	30.232		
ATOM	10600	0	TYR X	95			-28.562	29.698		10.91
ATOM	10601	CB	TYR X	95	54	.725	-31.273	28.853		13.61
					53	.834	-32.487	28.806		11.96
ATOM			1 TYR X		54	.021	-33.549	29.687	1.00	13.54
ATOM							-32.588	27.857		12.97
MOTA			2 TYR X				-34.690	29.622		18.84
MOTA	10605				53	. 214	- 34.090			16.65
MOTA	10606	CE	2 TYR X		52	.005	-33.723			
MOTA		CZ	TYR X	95	52	.203	3 -34.774	28.667		20.69
ATOM			TYRX	95	51	.364	4 -35.873	28.684		19.28
ATOM		•	CYS >		57	.095	5 -30.137	30.856	1.00	10.61
					5.8	. 341	1 -29.356	30.835	1.00	9.82
ATOM					50	131	2 -30.265	29.940	1.00	7.14
ATOM			CYS >		5.5	1 02	7 -31.503		1.00	
ATOM					22	. 02	, -31.303		1.00	
ATOM	10613	CE			59	. 05	5 -29.191			
ATOM		S			59	9.95	1 -30.667	32.749	1.00	
ATOM			THR X	3 97	59	.83	1 -29.642	28.990	1.00	
ATOM					60).65	0 -30.404	28.065	1.00	
ATOM			THR		6	.90	1 -29.648	27.676		
			THR		6	1.89	1 -28.421	27.644	1.00	4.64
MOTA	10618	, 0	T111/	.) !	0.					

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ATOM	10619	CB	THR	X	97	59.8	31	-30.857	26,803	1.00	6.32
ATOM	10620	OG1	THR	X	97	60.7	03	-31.341	25.777	1.00	4.32
ATOM	10621	CG2	THR		97			-29.735	26.275	1.00	12.03
ATOM	10622	N	ARG	Х	98			-30.429	27.474	1.00	8.74
ATOM	10623	CA	ARG	X	98	64.3	33	-30.007	27.064	1.00	6.24
MOTA	10624	С	ARG	X	98	64.4	1 4	-29.775	25.544	1.00	3.94
								-30.706	24.734	1.00	4.11
MOTA	10625	0	ARG		98						
ATOM	10626	CB	ARG	Х	98	65.3	37	-31.111	27.414	1.00	7.44
ATOM	10627	CG	ARG	X	98	66.6	98	-30.626	27.717	1.00	8.48
ATOM	10628	CD	ARG	x	98	67.6	กล	-31.163	26.681	1.00	10.70
			ARG					-32.181	27.223	1.00	8.81
ATOM	10629	NE			98						
ATOM	10630	CZ	ARG	X	98	68.9	68	-33.172	26.490	1.00	11.61
MOTA	10631	NHl	ARG	X	98	68.6	44	-33.253	25.208	1.00	7.62
ATOM	10632	NH2			98			-34.101	27.052	1.00	17.99
ATOM	10633	И	SER		99			-28.546	25.140	1.00	2.00
.ATOM	10634	CA	SER	X	99	64.8	02	-28.272	23.713	1.00	4.93
MOTA	10635	С	SER	X	99	66.2	36	-28.562	23.361	1.00	11.22
ATOM	10636	0	SER		99			-28.267	24.126	1.00	14.99
ATOM	10637	CB	SER		99			-26.813	23.384	1.00	2.00
ATOM	10638	OG	SER	X	99	65.7	34	-26.074	23.374	1.00	8.54
ATOM	10639	N	ASP	Х	100	66.4	39	-29.098	22.176	1.00	13.25
ATOM	10640	CA	ASP					-29.450	21.746		15.68
MOTA	10641	С	ASP					-28.390	20.739		13.40
ATOM	10642	0	ASP	X	100	67.9	46	-28.498	19.528	1.00	16.01
MOTA	10643	CB	ASP	X	100	67.7	16	-30.859	21.149	1.00	22.65
ATOM	10644	CG	ASP					-31.275	20.504	1 00	22.54
MOTA	10645		ASP					-32.033	19.522		22.08
ATOM	10646	OD2	ASP	Х	100	70.0	65	-30.852	20.976	1.00	29.25
ATOM	10647	N	GLY	X	101	68.7	76	-27.333	21.259	1.00	12.70
ATOM	10648	CA	GLY	x	101	69.1	99	-26.256	20.394	1.00	16.26
		C	GLY					-25.436	20.033		18.45
ATOM	10649										
MOTA	10650	0	GLY	X	101			-24.790	18.981	1.00	22.93
MOTA	10651	N	ARG	Х	102	67.0	20	-25.478	20.928	1.00	18.04
MOTA	10652	CA	ARG	X	102	65.7	80	-24.752	20.735	1.00	11.53
ATOM	10653	С	ARG					-25.171	19.422		10.32
MOTA	10654	0	ARG					-24.343	18.697		11.18
ATOM	10655	CB	ARG	Х	102	66.0	73	-23.252	20.778	1.00	2.00
ATOM	10656	CG	ARG	X	102	66.4	02	-22.856	22.152	1.00	2.00
ATOM	10657	CD	ARG	x	102	66.8	66	-21.431	22.253	1.00	2.00
								-20.443			
ATOM	10658	NE	ARG						22.207	1.00	2.00
ATOM	10659	CZ	ARG	X	102	65.4	97	-19.734	21.127	1.00	2.01
ATOM	10660	NHl	ARG	Х	102	66.2	00	-19.929	20.026	1.00	7.94
MOTA	10661	NH2	ARG	X	102	64.5	15	-18.831	21.142	1.00	2.19
ATOM	10662	N	ASN					-26.455	19.099		10.30
ATOM	10663	CA	ASN					-26.894	17.876		16.44
ATOM	10664	С	ASN	X	103	63.6	22	-28.144	18.146	1.00	19.12
ATOM	10665	0	ASN	Х	103	62.4	36	-28.042	18.455	1.00	26.27
ATOM	10666	СВ	ASN.					-27.109	16.777		18.16
MOTA	10667	CG	ASN					-25.781	16.159		19.24
MOTA	10668	OD1	ASN.	X	103	66.9	95	-25.189	16.566	1.00	12.49
ATOM	10669	ND2	ASN,	Х	103	65.2	38	-25.309	15.179	1.00	19.08
ATOM	10670	N	ASP					-29.323	18.022		13.55
ATOM	10671	CA	ASP					-30.518	18.345	1.00	9.57
ATOM	10672	С	ASP	Х	104	63.3	82	-30.435	19.881		12.39
MOTA	10673	0	ASP	Х	104	64.3	40	-29.967	20.525	1.00	13.14
ATOM	10674	CB	ASP					-31.781	17.916		11.36
MOTA	10675	CG	ASP					-31.792	18.402		15.33
MOTA	10676	OD1	ASP	X	104	66.1	14	-32.581	19.318	1.00	7.58
ATOM	10677	OD2	ASP	X	104	66.5	60	-31.015	17.841		22.96
MOTA	10678	N	MET					-30.823	20.475	1.00	11.45
						02.2					

				_		00 001	01 052	1.00 6.14
ATOM	10679	CA :	MET X	105		-30.831	21.953	
ATOM	10680	С	MET X	105		-32.315	22.240	1.00 2.66
ATOM	10681	0	MET X	105		-33.111	21.975	1.00 2.39
ATOM	10682	CB	MET X	105		-30.338	22.377	1.00 7.28
ATOM	10683	CG	MET X	105	59.936	-29.581	21.248	1.00 14.36
ATOM	10684		MET X		58.621	-28.370	21.712	1.00 4.53
ATOM	10685		MET X			-29.308	23.061	1.00 10.35
	10686		ASP X			-32.694	22.687	1.00 4.57
ATOM			ASP X			-34.111	22.908	1.00 7.48
MOTA	10687		ASP X			-34.901	24.189	1.00 9.70
MOTA	10688					-36.042	24.235	1.00 5.51
MOTA	10689		ASP X			-34.383	22.484	1.00 7.68
ATOM	10690		ASP X				23.429	1.00 12.68
MOTA	10691	CG	ASP X			-33.724		
MOTA	10692		ASP X			-33.244	24.545	
ATOM	10693	OD2	ASP X	106		-33.681	23.046	1.00 20.16
ATOM	10694	И	SER X	107		-34.313	25.241	1.00 12.41
ATOM	10695	CA	SER X	107		-35.076	26.464	1.00 13.75
ATOM	10696	С	SER X	107		-34.360	27.229	1.00 17.30
ATOM	10697	0	SER X		61.703	-33.118	27.348	1.00 16.44
ATOM	10698	СВ		107	64.015	-35.185	27.341	1.00 16.70
ATOM	10699	OG	SER X	107		-35.655	26.613	1.00 26.49
ATOM	10700	N	TRP X			-35.135	27.765	1.00 15.11
		CA	TRP X			-34.519	28.481	1.00 15.86
ATOM	10701		TRP X			-35.063	29.873	1.00 18.08
MOTA	10702	C				-36.248	30.121	1.00 18.33
MOTA	10703	0	TRP X			-34.703	27.698	1.00 14.70
MOTA	10704	CB	TRP X				26.265	1.00 13.75
MOTA	10705	CG	TRP X			-34.221		1.00 15.75
MOTA	10706	CD1				-34.466	25.341	1.00 12.22
MOTA	10707	CD2	TRP X			-33.378	25.626	
MOTA	10708	NE1				-33.821	24.172	
MOTA	10709	CE2				-33.146	24.318	1.00 8.11
MOTA	10710	CE3	TRP X	108		-32.789	26.043	1.00 6.72
MOTA	10711	CZ2	TRP X	108		-32.353	23.418	1.00 7.15
ATOM	10712	CZ3	TRP X	108	55.531		25.154	1.00 2.00
ATOM	10713	· CH2	TRP X	108	56.010	-31.790	23.853	1.00 7.56
MOTA	10714	N	GLY X	109	58.942	-34.187	30.767	1.00 18.96
ATOM	10715	CA	GLY X	109	58.574	-34.589	32.121	1.00 15.50
ATOM	10716	С	GLY X	109	57.245	-35.394	32.013	1.00 14.79
ATOM	10717	ō	GLY X		56.587	-35.418	30.950	1.00 9.36
ATOM	10718	N	GLN X		56.832		33.093	1.00 11.48
ATOM	10719	CA	GLN X			-36.872	33.045	1.00 7.25
	10720	C	GLN X			-36.095	32.576	1.00 13.44
MOTA	10721	Ö	GLN X		53.628		31.848	1.00 17.60
MOTA		СВ	GLN X			-37.374	34.401	1.00 2.00
ATOM	10722		GLN X			-37.584	35.250	1.00 12.69
ATOM	10723	CG				-36.475	36.258	1.00 23.30
MOTA	10724	CD	GLN X			36.046	36.952	1.00 30.91
MOTA	10725		GLN X				36.357	1.00 26.50
ATOM	10726	NE2			57.909	-36.007		1.00 20.30
ATOM	10727	N	GLY X			-34.842	33.018	1.00 17.22
MOTA	10728	CA	GLY X			7 -33.936	32.709	
MOTA	10729	С	GLY X			5 -33.544	34.029	1.00 13.38
ATOM	10730	0	GLY X			-34.249	35.028	1.00 14.39
ATOM	10731	N	THR >	112	52.024	4 - 32.403	34.089	1.00 13.64
ATOM	10732	CA	THR >	112		9 -32.063	35.331	1.00 15.68
ATOM		С	THR >	K 112		2 -31.677	34.987	1.00 16.26
ATOM		0	THR >		49.712	2 -30.831	34.142	1.00 17.20
ATOM		СВ	THR >		52.026	6 -30.937	36.084	1.00 19.60
ATOM		OG]			53.27	6 -31.427	36.597	1.00 24.08
ATOM			THR >		51.15	9 -30.488	37.273	1.00 14.21
ATOM		N CG2	LEU X			8 -32.324	35.650	1.00 16.22
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ATOM	10739	CA	LEU X 113	47.596 -32.075	35.403	1.00 17.95
	10740	C	LEU X 113	47.147 -30.924	36.298	1.00 18.01
ATOM				47.056 -31.069	37.514	1.00 22.45
MOTA	10741	0	LEU X 113		35.741	1.00 22.55
ATOM	10742	CB	LEU X 113	46.815 -33.344		
ATOM	10743	CG	LEU X 113	45.452 -33.567	35.097	1.00 22.44
ATOM	10744	CD1	LEU X 113	44.357 -33.031	36.044	1.00 25.27
ATOM	10745	CD2	LEU X 113	45.409 -32.871	33.750	1.00 22.51
			VAL X 114	46.922 -29.763	35.719	1.00 15.95
MOTA	10746	N			36.519	1.00 17.42
MOTA	10747	CA	VAL X 114	46.459 -28.637		
ATOM	10748	С	VAL X 114	44.990 -28.530	36.154	1.00 21.06
MOTA	10749	0	VAL X 114	44.627 -28.243	35.001	1.00 18.80
ATOM	10750	СВ	VAL X 114	47.244 -27.321	36.189	1.00 16.49
	10751	CG1		46.369 -26.079	36.337	1.00 8.72
MOTA				48.417 -27.213	37.119	1.00 12.84
ATOM	10752	CG2	VAL X 114			1.00 22.51
MOTA	10753	N	THR X 115	44.140 -28.803	37.137	
ATOM	10754	CA	THR X 115	42.719 -28.753	36.893	1.00 19.34
MOTA	10755	С	THR X 115	42.148 -27.673	37.773	1.00 18.14
ATOM	10756	0	THR X 115	42.227 -27.723	39.013	1.00 18.21
	10757	CB	THR X 115	42.093 -30.096	37.182	1.00 18.13
ATOM				40.798 -29.888	37.742	1.00 18.59
MOTA	10758	OG1	THR X 115			
MOTA	10759	CG2	THR X 115	42.981 -30.898	38.123	1.00 16.59
MOTA	10760	N	VAL X 116	41.613 -26.653	37.131	1.00 17.08
ATOM	10761	CA	VAL X 116	41.090 -25.542	37.895	1.00 22.82
MOTA	10762	С	VAL X 116	39.565 -25.466	37.863	1.00 26.65
	10763	Ö	VAL X 116	38.951 -25.206	36.817	1.00 24.14
ATOM				41.728 -24.188	37.424	1.00 22.35
ATOM	10764	CB	VAL X 116			1.00 17.23
ATOM	10765	CG1		43.225 -24.306	37.373	
ATOM	10766	CG2	VAL X 116	41.193 -23.783	36.061	1.00 22.27
ATOM	10767	N	SER X 117	38.959 -25.715	39.019	1.00 30.99
ATOM	10768	CA	SER X 117	37.510 -25.677	39.129	1.00 36.70
ATOM	10769	C.	SER X 117	37.045 -25.217	40.506	1.00 39.85
	10770		SER X 117	37.790 -25.350	41.492	1.00 37.84
ATOM		0		36.921 -27.060	38.806	1.00 36.43
ATOM	10771	CB	SER X 117			1.00 39.18
MOTA	10772	OG	SER X 117	36.262 -27.630	39.920	
ATOM	10773	N	SER X 118	35.812 -24.686	40.543	1.00 41.03
MOTA	10774	CA	SER X 118	35.153 -24.187	41.762	1.00 40.48
ATOM	10775	С	SER X 118	34.587 -25.339	42.574	1.00 38.92
ATOM	10776	ō	SER X 118	34.448 -25.264	43.782	1.00 36.76
			SER X 118	34.021 -23.256	41.379	1.00 40.57
MOTA	10777	CB		33.826 -23.336	39.981	1.00 44.77
MOTA	10778	OG	SER X 118			
ATOM	10779	N	ALA X 119	34.256 -26.417	41.895	1.00 41.50
MOTA	10780	CA	ALA X 119	33.733 -27.589	42.569	1.00 46.00
ATOM	10781	С	ALA X 119	34.640 -27.944	43.750	1.00 46.53
MOTA	10782	0	ALA X 119	35.748 -27.413	43.884	1.00 49.30
ATOM	10783	СВ	ALA X 119	33.661 -28.766	41.568	1.00 48.10
	10784		SER X 120	34.168 -28.845	44.604	1.00 46.42
ATOM		N		34.950 -29.280	45.746	1.00 47.32
ATOM	10785	CA	SER X 120	34.930 -29.200		1.00 43.68
MOTA	10786	С	SER X 120	34.793 -30.780	45.953	
MOTA	10787	0	SER X 120	33.712 -31.341	45.784	1.00-37.83
MOTA	10788	CB	SER X 120	34.535 -28.506	46.992	1.00 51.99
ATOM	10789		SER X 120	34.336 -27.139	46.667	1.00 59.86
	10790	N	THR X 121	35.913 -31.422	46.267	1.00 44.05
ATOM				35.948 -32.853	46.475	1.00 42.68
MOTA	10791	CA	THR X 121	33.340 -32.033		1.00 41.01
MOTA	10792	С	THR X 121	34.596 -33.351	46.844	
ATOM	10793	0	THR X 121	33.863 -32.676	47.528	1.00 42.89
MOTA	10794	CB	THR X 121	36.950 -33.238	47.545	1.00 42.78
ATOM			L THR X 121	38.264 -33.235	46.966	1.00 50.22
MOTA		CG2		36.650 -34.618	48.068	1.00 42.30
		N	LYS X 122	34.261 -34.534	46.359	1.00 42.75
ATOM				39.401 -34.334	46.620	1.00 41.99
ATOM	10798	CA	LYS X 122	32.960 -35.121	40.020	1.00 41.33

							1 00 41 30
ATOM	10799	C L	YS X 122	32.923 -			1.00 41.30
ATOM	10800	O I	YS X 122	33.422 -			1.00 44.24
	10801		YS X 122	31.890 -	34.264		1.00 41.97
MOTA		CG I	YS X 122	30.946 -	35.044	45.057	1.00 42.78
MOTA	10802	CD I	YS X 122	29.485 -		45.344	1.00 46.70
MOTA	10803	CD I	ys x 122	28.897 -	35.550	46.456	1.00 49.93
ATOM	10804	CE I	ys x 122	28.747 -	36.964	46.020	1.00 51.60
MOTA	10805	NZ I	LY X 123	32.331 -	37.470	46.750	1.00 39.19
MOTA	10806	N C	LY X 123	32.257 -	-38.839	46.273	1.00 37.24
MOTA	10807	CA C	2DI V 173	31.284 -	38.882	45.128	1.00 35.66
MOTA	10808	C	SLY X 123	30.592 -	-37.901	44.921	1.00 33.90
MOTA	10809	0 (GLY X 123	31.226 -	-39.967	44.348	1.00 33.45
MOTA	10810	И	PRO X 124	30.277 -	-40 017	43.241	1.00 37.12
MOTA	10811		PRO X 124	28.947	-40 596	43.720	1.00 40.92
MOTA	10812	C I	PRO X 124	28.762	-40.350	44.903	1.00 43.99
MOTA	10813		PRO X 124	30.948	-40.007	42.271	1.00 35.45
MOTA	10814		PRO X 124	31.592		43.180	1.00 34.31
MOTA	10815	CG	PRO X 124	32.039	.41.333	44.408	1.00 32.69
MOTA	10816	CD	PRO X 124	28.030	40.700	42.786	1.00 39.81
ATOM	10817	N	SER X 125	28.030	41 207	43.071	1.00 36.84
MOTA	10818	CA	SER X 125	26.747	41.351	42.111	1.00 35.29
MOTA	10819	С	SER X 125	26.813	-42.363	41.045	1.00 38.76
MOTA	10820	0	SER X 125	27.402	-42.441		1.00 38.57
MOTA	10821	CB	SER X 125	25.609	-40.477	42.675 43.642	1.00 33.57
ATOM	10822	OG	SER X 125	25.463	-39.466		1.00 30.79
ATOM	10823	N	VAL X 126	26.231	-43.692	42.476	1.00 24.08
ATOM	10824	CA	VAL X 126	26.253	-44.870	41.618	1.00 24.20
ATOM	10825	С	VAL X 126	24.830	-45.313	41.312	1.00 24.20
ATOM	10826	0	VAL X 126	23.961	-45.267	42.168	1.00 27.07
ATOM	10827	CB	VAL X 126		-45.978	42.315	1.00 22.07
ATOM	10828	CG1	VAL X 126		-45.574	42.556	1.00 13.03
ATOM	10829	CG2	VAL X 126	26.283	-46.247	43.648	1.00 23.00
ATOM	10830	N	PHE X 127	24.565	-45.733	40.094	1.00 25.11
MOTA	10831	CA	PHE X 127	23.205	-46.131	39.781	1.00 20.02
ATOM	10832	С	PHE X 127	23.195	-47.354	38.902	1.00 25.61
ATOM	10833	0	PHE X 127		-47.408	37.880	1.00 33.01
ATOM	10834	CB	PHE X 127	22.474	-44.965	39.112	1.00 21.08
ATOM		CG	PHE X 127	22.411	-43.737	39.969	1.00 21.00
ATOM				21.560	-43.700	41.066	1.00 20.37
ATOM		CD2	PHE X 127		-42.632	39.702	
ATOM		CE1		21.512	-42.589	41.886	
ATOM		CE2		23.201	-41.489	40.521	1.00 23.42
ATOM		CZ	PHE X 127	22.345	-41.459	41.614	
ATOM		N	PRO X 128	22.414	-48.355	39.267	1.00 31.20
ATOM		CA	PRO X 128	22.467	-49.501	38.377	- 00 20 OF
ATOM			PRO X 128	21.916	-49.121	37.035	
ATOM			PRO X 128	21.013	-48.305	36.943	
ATOM			PRO X 128	21.589	-50.525	39.062	
ATOM			PRO X 128	20.631	-49.694	39.848	
ATOM			PRO X 128	21.430	-48.529	40.341	
MOTA		3 N	LEU X 129	22.513	-49.697	36.003	
MOTA			LEU X 129	22.086	-49.533	34.621	
ATO:			LEU X 129	21.741	-51.005	34.486	
10TA			LEU X 129	22.517	-51.778	33.947	
OTA			LEU X 129	23.266	-49.160	33.710	
OTA			LEU X 129	24.177	7 -47.986	34.114	
OTA			LEU X 129	25.438	3 -48.045	33.309	
OTA			2 LEU X 129	23.510	-46.647	33.860	
ATO			ALA X 130	20.593	3 -51.396	35.037	
ATO				20.196	5 -52.802	35.042	
ATO			ALA X 130	19.673	1 -53.386	33.758	3 1.00 33.38
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ATOM	10859	0	ALA X 130	18.997 -52.716	32.970	1.00 32.53
ATOM	10860		ALA X 130	19.188 -53.053	36.141	1.00 37.32
	10861	N	PRO X 131	19.978 -54.669	33.539	1.00 30.88
MOTA				19.551 -55.413	32.353	1.00 32.27
MOTA	10862	CA	PRO X 131	18.034 -55.413	32.232	1.00 35.45
MOTA	10863	С	PRO X 131		33.221	1.00 38.53
MOTA	10864	0	PRO X 131	17.305 -55.350		
ATOM	10865	CB	PRO X 131	20.111 -56.816	32.575	1.00 26.77
MOTA	10866	CG	PRO X 131	20.473 -56.884	33.969	1.00 22.83
ATOM	10867	CD	PRO X 131	20.793 -55.501	34.432	1.00 26.25
ATOM	10868	N	SER X 132	17.562 -55.480	31.003	1.00 36.64
	10869	CA	SER X 132	16.143 -55.460	30.740	1.00 38.85
ATOM			SER X 132	15.994 -55.823	29.283	1.00 41.48
MOTA	10870	C		16.932 -55.754	28.532	1.00 43.88
ATOM	10871	0	SER X 132		30.940	1.00 36.44
ATOM	10872	CB	SER X 132	15.608 -54.059		
ATOM	10873	OG	SER X 132	15.796 -53.339	29.740	1.00 28.76
MOTA	10874	N	SER X 133	14.811 -56.207	28.874	1.00 45.63
MOTA	10875	CA	SER X 133	14.614 -56.553	27.491	1.00 49.03
ATOM	10876	С	SER X 133	15.211 -55.436	26.638	1.00 47.22
	10877	ō	SER X 133	15.756 -55.679	25.560	1.00 47.70
ATOM			SER X 133	13.119 -56.660	27.244	1.00 56.20
MOTA	10878	CB		12.409 -55.963	28.269	1.00 62.42
MOTA	10879	OG	SER X 133		27.141	1.00 44.01
MOTA	10880	N	LYS X 134	15.104 -54.214		
MOTA	10881	CA	LYS X 134	15.596 -53.037	26.439	1.00 46.72
ATOM	10882	С	LYS X 134	17.143 -52.933	26.342	1.00 45.65
MOTA	10883	0	LYS X 134	17.692 -52.014	25.705	1.00 42.33
ATOM	10884	СВ	LYS X 134	15.004 -51.793	27.110	1.00 50.80
ATOM	10885	CG	LYS X 134	13.743 -52.056	27.971	1.00 56.96
		CD	LYS X 134	13.776 -51.290	29.326	1.00 57.50
ATOM	10886			12.856 -51.914	30.375	1.00 55.07
MOTA	10887	CE	LYS X 134		30.079	1.00 56.44
MOTA	10888	NZ	LYS X 134	12.510 -53.348		1.00 30.41
MOTA	10889	N	SER X 135	17.825 -53.886		
MOTA	10890	CA	SER X 135	19.291 -53.961		1.00 36.07
MOTA	10891	C	SER X 135	19.770 -55.413		1.00 35.51
ATOM	10892	0	SER X 135	20.794 -55.837		1.00 30.62
ATOM	10893	CB	SER X 135	19.839 -53.359		1.00 36.33
MOTA	10894	OG	SER X 135	19.869 -54.275	29.385	1.00 34.22
ATOM	10895	N	THR X 136	19.019 -56.174	26.026	1.00 35.23
	10896	CA	THR X 136	19.373 -57.562		1.00 37.15
ATOM			THR X 136	19.342 -57.963		1.00 42.28
MOTA	10897	С		18.434 -58.658		1.00 46.30
MOTA	10898	0	THR X 136	18.458 -58.498		1.00 32.95
ATOM	10899	CB	THR X 136			1.00 32.33
MOTA	10900	OG1		18.561 -58.226		
MOTA	10901	CG2		18.856 -59.936		1.00 30.73
MOTA	10902	N	SER X 137	20.353 -57.536		1.00 42.65
MOTA	10903	CA	SER X 137	20.431 -57.883	22.188	1.00 41.07
ATOM	10904	С	SER X 137	20.830 -59.358	22.115	1.00 39.57
ATOM	10905	Ō	SER X 137	21.719 -59.824		1.00 35.23
MOTA	10906	СВ	SER X 137	21.459 -56.977		1.00 45.41
			SER X 137	20.971 -55.637		1.00 48.38
ATOM	10907	OG		20.144 -60.102		1.00 41.40
MOTA	10908	N	GLY X 138			1.00 41.66
MOTA	10909	CA	GLY X 138	20.441 -61.517		1.00 41.99
ATOM	10910	С	GLY X 138	20.589 -62.234		
MOTA	10911	0	GLY X 138	19.940 -61.862		1.00 44.19
ATOM	10912	N	GLY X 139	21.444 -63.25		1.00 42.24
MOTA			GLY X 139	21.649 -64.028	3 23.677	1.00 39.95
ATOM		C	GLY X 139	22.366 -63.27		1.00 37.56
ATOM		Ö	GLY X 139	22.453 -63.75	_	1.00 40.82
			THR X 140	22.842 -62.08		
ATOM				23.583 -61.30		1.00 32.23
ATOM			THR X 140			1.00 30.82
ATOM	10918	С	THR X 140	22.850 -60.12	7 26.104	1.00 30.02

ATOM 10919 O THR X 140						_			
ATOM 10921 OG1 THR X 140	ATOM	10919	0	THR X	140		25.474	1.00	29.94
ATOM 10921 OG1 THR X 140	ATOM	10920	CB	THR X	140	24.890 -60.768	24.846	1.00	33.98
ATOM 10922 CG2 THR X 1-40 24.994 -61.202 23.374 1.00 33.44 ATOM 10924 CA ALA X 141 23.184 -59.869 27.363 1.00 28.85 ATOM 10925 CA ALA X 141 22.567 -58.782 28.100 1.00 28.85 ATOM 10926 CA ALA X 141 22.567 -58.782 28.100 1.00 27.12 ATOM 10927 CB ALA X 141 24.702 -58.067 28.878 1.00 29.21 ATOM 10928 N ALA X 142 23.509 -56.454 28.412 1.00 22.11 ATOM 10928 N ALA X 142 23.209 -56.454 28.412 1.00 22.11 ATOM 10929 CA ALA X 142 23.209 -56.454 28.412 1.00 22.11 ATOM 10931 CA ALA X 142 23.209 -56.454 28.412 1.00 22.15 ATOM 10931 CA ALA X 142 23.732 -54.842 30.164 1.00 20.79 ATOM 10931 CA ALA X 142 22.565 -54.715 30.483 1.00 24.48 ATOM 10932 CB ALA X 142 22.565 -54.715 30.483 1.00 24.48 ATOM 10933 N LEU X 143 24.707 -54.257 27.764 1.00 19.80 ATOM 10934 CA LEU X 143 24.392 -53.970 32.282 1.00 15.43 ATOM 10935 CA LEU X 143 24.907 -54.257 27.764 1.00 19.80 ATOM 10936 CA LEU X 143 25.602 -53.230 32.859 1.00 21.68 ATOM 10936 CA LEU X 143 25.602 -53.230 32.859 1.00 21.68 ATOM 10936 CA LEU X 143 24.392 -53.469 32.416 1.00 28.83 ATOM 10936 CA LEU X 143 24.714 -55.841 34.285 1.00 9.06 ATOM 10936 CA LEU X 143 24.714 -55.841 34.285 1.00 9.06 ATOM 10940 CA LEU X 143 24.962 -57.292 33.937 1.00 4.85 ATOM 10940 CA LEU X 143 25.963 -55.172 33.113 1.00 5.15 ATOM 10941 N GLY X 144 25.406 -52.326 33.818 1.00 27.81 ATOM 10940 CA CAYS X 145 27.424 24.830 25.555 24.670 1.00 11.62 ATOM 10940 CA CAYS X 145 27.424 24.809 35.822 1.00 37.82 ATOM 10940 CA CAYS X 145 27.424 24.809 35.830 1.00 27.81 ATOM 10940 CA CAYS X 145 27.424 24.809 35.832 1.00 37.83 ATOM 1							24 932	1 00	31 79
ATOM 10923 N ALA X 141 23.184 -59.869 27.363 1.00 28.85 ATOM 10924 CA ALA X 141 22.567 -58.782 28.100 1.00 28.85 ATOM 10926 O ALA X 141 23.587 -57.728 28.491 1.00 27.12 ATOM 10926 O ALA X 141 24.702 -58.067 28.878 1.00 29.23 ATOM 10927 CB ALA X 141 21.905 -59.342 29.345 1.00 30.02 ATOM 10928 N ALA X 142 23.209 -56.454 28.412 1.00 20.21 ATOM 10928 N ALA X 142 24.119 -55.382 28.794 1.00 20.79 ATOM 10929 CA ALA X 142 24.119 -55.382 28.794 1.00 20.79 ATOM 10930 C ALA X 142 24.119 -55.382 28.794 1.00 20.66 ATOM 10931 O ALA X 142 22.565 -54.715 30.483 1.00 30.024.48 ATOM 10932 CB ALA X 142 24.119 -55.382 28.794 1.00 20.66 ATOM 10931 O ALA X 142 24.707 -54.479 30.969 1.00 18.08 ATOM 10933 N LEU X 143 24.707 -54.479 30.969 1.00 18.08 ATOM 10933 C LEU X 143 24.707 -54.479 30.969 1.00 18.08 ATOM 10936 C LEU X 143 26.720 -53.230 32.859 1.00 15.63 ATOM 10937 CB LEU X 143 25.602 -53.230 32.859 1.00 28.83 ATOM 10937 CB LEU X 143 25.602 -53.230 32.859 1.00 28.63 ATOM 10939 CD LEU X 143 23.988 -55.172 33.113 1.00 5.15 ATOM 10939 CD LEU X 143 24.704 -55.841 34.285 1.00 9.06 ATOM 10939 CD LEU X 143 24.704 -55.841 34.285 1.00 9.06 ATOM 10930 CD LEU X 143 24.962 -57.292 33.937 1.00 4.63 ATOM 10940 CD LEU X 143 24.962 -57.292 33.937 1.00 4.63 ATOM 10940 CD LEU X 143 24.962 -57.292 33.937 1.00 4.63 ATOM 10940 CD LEU X 144 25.408 -52.5162 33.818 1.00 21.63 ATOM 10940 CD LEU X 144 25.408 -52.526 33.818 1.00 21.63 ATOM 10940 CD LEU X 144 25.408 -52.526 33.818 1.00 21.82 ATOM 10940 CD LEU X 144 25.408 -52.526 33.818 1.00 21.82 ATOM 10940 CD LEU X 144 25.408 -52.50.526 35.800 1.00 27.81 ATOM 10940 CD CVS X 145 26.921 48.732 36.874 1.00 13.73 ATOM 10940 CD CVS X 145 26.921 48.732 36.874 1.00 13.73 ATOM 10940 CD CVS X 145 26.921 48.732 36.874 1.00 13.73 ATOM 10940 CD CVS X 145 26.921 48.732 36.874 1.00 13.73 ATOM 10940 CD CVS X 145 26.921 48.732 36.874 1.00 13.73 ATOM 10940 CD CVS X 145 26.921 48.732 36.874 1.00 13.73 ATOM 10940 CD CVS X 145 26.921 48.732 36.874 1.00 13.73 ATOM 10950 CD CVS X 145 27.761 48.862 37.903 37.571 1.00 6.79 ATOM									
ATOM 10924 CA ALA X 141 22,567 58,782 28,100 1,00 28,85	ATOM	10922	CG2	THR X	140				
ATOM 10926 CA ALA X 141 22.567 -58.782 28.100 1.00 28.85 ATOM 10925 C ALA X 141 23.587 -57.728 28.491 1.00 27.23 ATOM 10926 C ALA X 141 21.905 -59.342 29.345 1.00 29.23 ATOM 10928 N ALA X 142 23.209 -56.454 28.412 1.00 22.11 ATOM 10929 CA ALA X 142 23.209 -56.454 28.412 1.00 22.12 ATOM 10930 C ALA X 142 23.725 -54.842 30.164 1.00 20.79 ATOM 10931 C ALA X 142 23.732 -54.842 30.164 1.00 20.67 ATOM 10931 C ALA X 142 23.732 -54.842 30.164 1.00 20.67 ATOM 10931 C ALA X 142 23.732 -54.842 30.164 1.00 20.67 ATOM 10931 C ALA X 142 24.719 -55.382 28.794 1.00 24.48 ATOM 10931 C ALA X 142 24.707 -54.479 30.969 1.00 18.08 ATOM 10934 CA LEU X 143 24.707 -54.479 30.969 1.00 18.08 ATOM 10935 C LEU X 143 25.602 -53.230 32.859 1.00 21.63 ATOM 10936 C LEU X 143 25.602 -53.230 32.859 1.00 21.63 ATOM 10937 CB LEU X 143 25.602 -53.230 32.859 1.00 21.63 ATOM 10938 CG LEU X 143 24.962 -57.292 33.937 1.00 4.85 ATOM 10938 CG LEU X 143 24.962 -57.292 33.937 1.00 4.85 ATOM 10930 CD LEU X 143 24.962 -57.292 33.937 1.00 4.85 ATOM 10940 CD LEU X 143 25.608 -55.152 34.670 1.00 11.82 ATOM 10940 CD LEU X 143 25.983 -55.152 34.670 1.00 21.42 ATOM 10941 N GLY X 144 26.515 -51.640 34.405 1.00 20.24 ATOM 10940 CD LEU X 143 25.983 -55.152 34.670 1.00 21.42 ATOM 10940 C CLY X 144 26.553 -51.640 34.405 1.00 20.24 ATOM 10940 C CLY X 144 26.553 -51.640 34.405 1.00 20.27 ATOM 10940 C CLY X 144 26.553 -51.640 34.405 1.00 20.27 ATOM 10940 C CLY X 144 26.553 -51.640 34.405 1.00 20.27 ATOM 10940 C CLY X 144 26.553 -51.640 34.405 1.00 20.27 ATOM 10940 C CLY X 144 26.553 -51.640 34.405 1.00 20.27 ATOM 10940 C CLY X 144 26.505 -51.52 36 38.93 1.00 10.53 ATOM 10950 C CLY X 145 26.921 -48.732 36.874 1.00 13.73 ATOM 10950 C CLY X 145 26.921 -48.732 36.874 1.00 13.73 ATOM 10950 C CLY X 145 26.921 -48.732 36.874 1.00 13.73 ATOM 10950 C CLY X 145 26.921 -48.732 36.874 1.00 13.73 ATOM 10950 C CLY X 146 26.921 -48.732 36.874 1.00 13.73 ATOM 10950 C CLY X 146 26.921 -48.732 36.874 1.00 13.73 ATOM 10950 C CLY X 146 26.921 -48.732 36.874 1.00 13.73 ATOM 10950 C CLY X 146	ATOM	10923	N	ALA X	141	23.184 -59.869	27.363	1.00	28.49
ATOM 10925 C ALA X 141 24.702 -58.067 28.878 1.00 27.12 ATOM 10926 O ALA X 141 24.702 -58.067 28.878 1.00 29.23 ATOM 10927 CB ALA X 141 21.905 -59.342 29.345 1.00 30.29.23 ATOM 10928 N ALA X 142 21.905 -59.342 29.345 1.00 29.23 ATOM 10929 CA ALA X 142 21.19 -55.382 28.794 1.00 20.73 ATOM 10930 C ALA X 142 24.119 -55.382 28.794 1.00 20.66 ATOM 10931 O ALA X 142 22.565 -54.715 30.463 1.00 24.64 ATOM 10931 O ALA X 142 22.565 -54.715 30.463 1.00 24.64 ATOM 10931 O ALA X 142 22.565 -54.715 30.463 1.00 24.64 ATOM 10933 C B ALA X 142 24.707 -54.257 27.764 1.00 19.80 ATOM 10934 CA LEU X 143 24.707 -54.479 30.969 1.00 18.08 ATOM 10935 C LEU X 143 24.707 -54.479 30.969 1.00 18.08 ATOM 10935 C LEU X 143 26.702 -53.230 32.859 1.00 15.63 ATOM 10936 O LEU X 143 26.702 -53.230 32.859 1.00 21.63 ATOM 10937 CB LEU X 143 26.702 -53.469 32.416 1.00 28.83 ATOM 10937 CB LEU X 143 24.704 -55.841 34.285 1.00 9.06 ATOM 10939 CD1 LEU X 143 24.704 -55.841 34.670 1.00 19.80 ATOM 10939 CD1 LEU X 143 24.704 -55.841 34.670 1.00 19.80 ATOM 10940 CD2 LEU X 143 24.704 -55.841 34.670 1.00 1.82 ATOM 10940 CD2 LEU X 143 24.962 -57.292 33.337 1.00 4.85 ATOM 10940 CD2 LEU X 144 25.406 -52.363 3.818 1.00 21.63 ATOM 10940 CD2 LEU X 144 25.406 -52.36 33.818 1.00 21.82 ATOM 10940 C C CS LEU X 144 25.406 -52.36 33.818 1.00 21.82 ATOM 10940 C C CS X 144 26.553 -51.640 34.405 1.00 26.23 ATOM 10940 C C CYS X 145 26.921 -48.732 36.874 1.00 13.33 ATOM 10940 C C CYS X 145 26.921 -48.732 36.874 1.00 13.73 ATOM 10940 C C CYS X 145 26.921 -48.732 36.874 1.00 13.73 ATOM 10940 C C CYS X 145 26.921 -48.732 36.874 1.00 13.73 ATOM 10950 C C LEU X 146 26.500 -47.19 35.555 1.00 23.25 ATOM 10951 N LEU X 146 26.500 -47.19 35.555 1.00 23.25 ATOM 10950 C C LEU X 146 26.500 -47.19 35.555 1.00 23.25 ATOM 10950 C C LEU X 146 26.500 -47.19 35.555 1.00 23.25 ATOM 10950 C C LEU X 146 26.500 -47.29 35.500 1.00 10.72 ATOM 10950 C C LEU X 146 26.500 -47.29 35.500 1.00 10.72 ATOM 10950 C C ALL X 147 30.459 -47.451 38.866 38.864 1.00 11.00 16.56 ATOM 10950 C C ALL X 147 30.459 -47.47			CA	X A.TA	141	22.567 -58.782	28,100	1.00	28.85
ATOM 10926 O ALA X 141									
ATOM 10927 CB ALBA X 141 21.905 -59.342 29.345 1.00 30.02 ATOM 10928 N ALBA X 142 23.209 -56.454 28.412 1.00 22.11 ATOM 10930 CC ALBA X 142 24.119 -55.382 28.794 1.00 20.79 ATOM 10930 CC ALBA X 142 24.119 -55.382 28.794 1.00 20.79 ATOM 10931 O ALBA X 142 22.565 -54.715 30.463 1.00 24.48 ATOM 10931 O ALBA X 142 24.070 -54.257 27.764 1.00 19.80 ATOM 10933 N LEU X 143 24.070 -54.257 27.764 1.00 19.80 ATOM 10934 CB LEU X 143 24.070 -54.257 30.969 1.00 18.08 ATOM 10935 C LEU X 143 24.070 -54.257 30.969 1.00 18.08 ATOM 10936 O LEU X 143 25.602 -53.230 32.859 1.00 21.63 ATOM 10936 O LEU X 143 26.702 -53.469 32.416 1.00 28.83 ATOM 10937 CB LEU X 143 23.988 -55.172 33.113 1.00 5.15 ATOM 10938 CG LEU X 143 24.714 -55.841 34.285 1.00 9.06 ATOM 10939 CD1 LEU X 143 26.720 -53.469 32.416 1.00 28.83 ATOM 10930 CD2 LEU X 143 26.720 -53.230 33.937 1.00 4.85 ATOM 10940 CD2 LEU X 143 25.983 -55.152 34.670 1.00 11.82 ATOM 10941 N GLY X 144 25.983 -55.152 34.670 1.00 11.82 ATOM 10941 N GLY X 144 26.553 -51.640 34.405 1.00 26.23 ATOM 10942 CA GLY X 144 26.553 -51.640 34.405 1.00 27.81 ATOM 10943 C GLY X 144 26.553 -51.640 34.405 1.00 27.81 ATOM 10940 CD2 LEU X 143 25.983 -55.152 35.380 1.00 27.81 ATOM 10940 CD2 LEU X 144 25.408 -52.326 33.818 1.00 27.81 ATOM 10940 CC CYS X 145 27.212 -49.826 35.937 1.00 22.14 ATOM 10940 CC CYS X 144 25.404 -50.295 35.522 1.00 33.25 ATOM 10940 CC CYS X 145 27.212 -49.826 35.937 1.00 22.14 ATOM 10945 N CYS X 145 27.212 -49.826 35.937 1.00 22.14 ATOM 10940 CC CYS X 145 27.144 -47.341 36.353 1.00 13.73 ATOM 10940 CC CYS X 145 27.144 -47.341 36.353 1.00 13.73 ATOM 10940 CC CYS X 145 27.144 -47.341 36.353 1.00 13.73 ATOM 10940 CC CYS X 145 27.144 -47.341 36.353 1.00 10.79 ATOM 10950 CC A LEU X 146 26.990 -44.258 37.603 1.00 10.79 ATOM 10950 CC A LEU X 146 26.990 -44.258 37.603 1.00 10.79 ATOM 10950 CC A LEU X 146 26.990 -44.258 37.603 1.00 10.79 ATOM 10950 CC A LEU X 146 26.990 -44.258 37.603 1.00 10.79 ATOM 10950 CC A LEU X 146 26.990 -44.258 37.601 1.00 10.79 ATOM 10950 CC A LEU X 146 26.990 -44.258 37.									
ATOM 10928 N ALA X 142 23.209 -56.454 28.412 1.00 22.11 ATOM 10930 C ALA X 142 24.119 -55.382 28.794 1.00 20.79 ATOM 10931 O ALA X 142 22.565 -54.715 30.483 1.00 24.48 ATOM 10932 CB ALA X 142 22.565 -54.715 30.483 1.00 24.48 ATOM 10932 CB ALA X 142 22.565 -54.715 30.483 1.00 24.48 ATOM 10932 CB ALA X 142 24.707 -54.479 30.969 1.00 18.08 ATOM 10933 N LEU X 143 24.707 -54.479 30.969 1.00 18.08 ATOM 10935 C LEU X 143 24.707 -54.479 30.969 1.00 18.08 ATOM 10935 C LEU X 143 25.602 -53.230 32.885 1.00 21.63 ATOM 10937 CB LEU X 143 26.720 -53.240 32.855 1.00 21.63 ATOM 10937 CB LEU X 143 26.720 -53.469 32.416 1.00 28.83 ATOM 10937 CB LEU X 143 24.714 -55.841 34.285 1.00 9.06 ATOM 10939 CDI LEU X 143 24.714 -55.841 34.285 1.00 9.06 ATOM 10940 CD2 LEU X 143 24.962 -57.292 33.937 1.00 4.85 ATOM 10940 CD2 LEU X 143 24.962 -57.292 33.937 1.00 21.42 ATOM 10941 N GLY X 144 25.046 -52.326 33.818 1.00 21.42 ATOM 10940 CD2 LEU X 144 25.046 -52.326 33.818 1.00 21.42 ATOM 10941 N GLY X 144 25.046 -52.326 35.380 1.00 27.81 ATOM 10945 N CYS X 144 26.217 -50.526 35.380 1.00 27.81 ATOM 10945 N CYS X 145 27.212 -49.826 35.937 1.00 22.11 ATOM 10946 CA CYS X 145 26.921 -48.732 36.874 1.00 13.73 ATOM 10947 C CYS X 145 27.761 -48.82 36.874 1.00 13.73 ATOM 10947 C CYS X 145 27.761 -48.82 36.874 1.00 13.73 ATOM 10950 CB CYS X 145 27.761 -48.82 36.894 1.00 12.53 ATOM 10950 CB CYS X 145 27.761 -48.82 35.995 1.00 23.22 ATOM 10950 CB CYS X 145 27.761 -48.82 35.995 1.00 23.22 ATOM 10950 CB CYS X 145 27.761 -48.82 35.995 1.00 23.22 ATOM 10950 CB CYS X 145 27.761 -48.82 35.995 1.00 23.22 ATOM 10950 CB CYS X 145 26.990 -44.258 37.693 1.00 10.96 ATOM 10955 CB LEU X 146 26.990 -44.258 37.693 1.00 10.96 ATOM 10950 CB LEU X 146 26.990 -44.258 37.693 1.00 10.96 ATOM 10950 CB LEU X 146 26.990 -44.258 37.693 1.00 10.96 ATOM 10950 CB LEU X 146 26.990 -44.258 37.693 1.00 10.96 ATOM 10950 CB LEU X 146 26.990 -44.258 37.993 38.991 1.00 2.00 10.96 ATOM 10950 CB LEU X 146 26.990 -44.258 37.993 38.991 1.00 2.00 10.96 ATOM 10950 CB LEU X 146 26.990 -44.258 37.993	ATOM	10926	0	ALA X	141	24.702 -58.067			
ATOM 10929 CA ALA X 142 23.209 -56.454 28.412 1.00 22.17 ATOM 10930 C ALA X 142 24.119 -55.382 28.794 1.00 20.79 ATOM 10931 O ALA X 142 22.565 -54.715 30.483 1.00 24.48 ATOM 10932 CB ALA X 142 22.565 -54.715 30.483 1.00 24.48 ATOM 10932 CB ALA X 142 22.565 -54.715 30.483 1.00 24.48 ATOM 10933 N LEU X 143 24.707 -54.479 30.969 1.00 18.08 ATOM 10935 C LEU X 143 24.707 -54.479 30.969 1.00 18.08 ATOM 10935 C LEU X 143 25.602 -53.230 32.885 1.00 21.63 ATOM 10936 O LEU X 143 26.720 -53.469 32.416 1.00 28.83 ATOM 10937 CB LEU X 143 26.720 -53.469 32.416 1.00 28.83 ATOM 10937 CB LEU X 143 24.714 -55.841 34.285 1.00 9.06 ATOM 10939 CD1 LEU X 143 24.714 -55.841 34.285 1.00 9.06 ATOM 10940 CD2 LEU X 143 24.714 -55.841 34.285 1.00 9.06 ATOM 10940 CD2 LEU X 143 25.983 -55.152 34.670 1.00 11.82 ATOM 10941 N GLY X 144 25.086 -52.326 33.818 1.00 21.42 ATOM 10942 CA GLY X 144 25.408 -52.326 33.818 1.00 21.42 ATOM 10943 C GLY X 144 25.408 -52.326 35.380 1.00 27.81 ATOM 10945 N CLY X 144 26.217 -50.526 35.380 1.00 27.81 ATOM 10946 CA CYS X 145 27.212 -49.826 35.937 1.00 22.21 ATOM 10947 C CYS X 145 27.212 -49.826 35.937 1.00 23.25 ATOM 10948 O CYS X 145 27.212 -49.826 35.937 1.00 23.25 ATOM 10947 C CYS X 145 27.212 -49.826 35.937 1.00 23.25 ATOM 10950 N CLY X 144 26.217 -50.526 35.380 1.00 27.81 ATOM 10951 N LEU X 146 26.217 -50.526 35.380 1.00 27.81 ATOM 10952 CA LEU X 146 26.227 -50.471 38.783 1.00 15.33 ATOM 10950 N CLY X 145 27.721 -48.732 35.575 1.00 23.25 ATOM 10950 N CLY X 145 27.721 -48.732 35.575 1.00 23.25 ATOM 10950 N LEU X 146 26.250 -43.712 35.575 1.00 23.25 ATOM 10950 N LEU X 146 26.509 -47.112 35.575 1.00 23.25 ATOM 10950 N LEU X 146 26.509 -47.112 35.575 1.00 23.25 ATOM 10950 N LEU X 146 26.509 -47.112 35.575 1.00 23.25 ATOM 10950 N LEU X 146 26.509 -47.112 35.751 1.00 10.76 ATOM 10950 N LEU X 146 26.509 -47.312 35.603 1.00 10.76 ATOM 10950 N LEU X 146 26.509 -47.312 38.666 1.00 2.00 ATOM 10950 N LEU X 146 26.509 -47.312 38.666 1.00 2.00 ATOM 10950 N LEU X 146 26.509 -47.312 38.666 1.00 2.00 ATOM 10950 N LEU X 146	ATOM	10927	CB	ALA X	141	21.905 -59.342	29.345	1.00	30.02
ATOM 10930 CA ALA X 142 23.732 -54.842 28.794 1.00 20.66 ATOM 10931 O ALA X 142 22.555 -54.715 30.164 1.00 20.66 ATOM 10931 O ALA X 142 22.555 -54.715 30.483 1.00 20.66 ATOM 10932 CB ALA X 142 22.555 -54.715 30.483 1.00 20.44 ATOM 10933 N LEU X 143 24.070 -54.257 27.764 1.00 19.80 ATOM 10934 CA LEU X 143 24.070 -54.479 30.969 1.00 18.08 ATOM 10935 C LEU X 143 25.602 -53.230 32.859 1.00 21.63 ATOM 10936 C LEU X 143 25.602 -53.230 32.859 1.00 21.63 ATOM 10937 CB LEU X 143 26.720 -53.369 32.416 1.00 28.83 ATOM 10938 CG LEU X 143 26.720 -53.369 32.416 1.00 28.83 ATOM 10939 CD1 LEU X 143 24.962 -57.292 33.131 1.00 5.15 ATOM 10938 CG LEU X 143 24.962 -57.292 33.937 1.00 4.85 ATOM 10940 CD2 LEU X 143 24.962 -57.292 33.937 1.00 4.85 ATOM 10941 N GLY X 144 25.086 -552.326 33.818 1.00 21.42 ATOM 10941 N GLY X 144 26.553 -51.52 34.670 1.00 11.82 ATOM 10942 CA GLY X 144 26.553 -51.52 34.670 1.00 22.14 ATOM 10945 N CYS X 144 25.044 -50.295 35.622 1.00 33.25 ATOM 10947 C CYS X 145 27.212 -49.826 35.937 1.00 22.11 ATOM 10946 CA CYS X 145 27.212 -49.826 35.937 1.00 22.11 ATOM 10949 CB CYS X 145 27.212 -49.826 35.937 1.00 22.11 ATOM 10949 CB CYS X 145 27.144 -47.341 36.353 1.00 15.33 ATOM 10949 CB CYS X 145 27.144 -47.341 36.353 1.00 15.33 ATOM 10949 CB CYS X 145 27.144 -47.341 36.353 1.00 15.33 ATOM 10950 C LEU X 146 26.921 -48.732 36.874 1.00 13.73 ATOM 10950 C LEU X 146 26.921 -48.732 36.879 1.00 2.02 ATOM 10950 C LEU X 146 26.990 -44.258 37.603 1.00 16.57 ATOM 10950 C LEU X 146 26.990 -44.258 37.603 1.00 16.57 ATOM 10950 C LEU X 146 26.990 -44.258 37.603 1.00 16.57 ATOM 10950 C LEU X 146 26.990 -44.258 37.603 1.00 16.57 ATOM 10950 C LEU X 146 26.990 -44.258 37.603 1.00 16.57 ATOM 10950 C LEU X 146 26.990 -44.258 37.603 1.00 16.57 ATOM 10950 C LEU X 146 26.990 -44.258 37.603 1.00 16.57 ATOM 10950 C LEU X 146 26.990 -44.258 37.603 1.00 16.57 ATOM 10950 C LEU X 146 26.990 -44.258 37.603 1.00 16.57 ATOM 10950 C LEU X 146 26.990 -44.258 37.603 1.00 16.57 ATOM 10950 C LEU X 146 26.990 -44.258 37.603 1.00 16.57 ATOM 10950 C LEU X		10928	N	Y A.IA	142	23.209 -56.454	28.412	1.00	22.11
ATOM 10931 C ALA X 142 23.732 -54.842 30.164 1.00 20.66 ATOM 10931 O ALA X 142 22.565 -54.715 30.483 1.00 24.48 ATOM 10932 CB ALA X 142 24.070 -54.257 27.764 1.00 19.80 ATOM 10933 N LEU X 143 24.070 -54.257 27.764 1.00 18.08 ATOM 10934 CA LEU X 143 24.707 -54.479 30.969 1.00 18.08 ATOM 10935 C LEU X 143 25.602 -53.230 32.859 1.00 21.63 ATOM 10937 CB LEU X 143 25.602 -53.230 32.859 1.00 21.63 ATOM 10937 CB LEU X 143 26.720 -53.469 32.416 1.00 28.83 ATOM 10937 CB LEU X 143 23.988 -551.72 33.113 1.00 5.15 ATOM 10937 CB LEU X 143 24.714 -55.841 34.285 1.00 9.06 ATOM 10938 CG LEU X 143 24.714 -55.841 34.285 1.00 9.06 ATOM 10940 CD2 LEU X 143 25.983 -551.52 34.670 1.00 11.82 ATOM 10941 N GLY X 144 25.983 -551.52 34.670 1.00 11.82 ATOM 10942 CA GLY X 144 26.533 -51.60 34.675 1.00 21.42 ATOM 10942 CA GLY X 144 26.535 -51.60 34.675 1.00 22.62 ATOM 10944 O GLY X 144 26.535 -51.60 34.675 1.00 23.25 ATOM 10945 N CYS X 145 26.921 -48.732 36.874 1.00 13.73 ATOM 10948 O CYS X 145 26.921 -48.732 36.874 1.00 13.73 ATOM 10948 O CYS X 145 27.124 -47.341 36.353 71 .00 23.22 ATOM 10949 CB CYS X 145 27.144 -47.341 36.353 71 .00 23.22 ATOM 10949 CB CYS X 145 27.761 -48.862 38.098 1.00 9.29 ATOM 10950 CB CYS X 145 27.761 -48.862 38.098 1.00 9.29 ATOM 10950 CB CYS X 145 27.761 -48.862 38.098 1.00 10.79 ATOM 10950 CB CYS X 145 27.761 -48.862 38.098 1.00 10.79 ATOM 10950 CB CYS X 145 27.761 -48.862 38.098 1.00 10.79 ATOM 10950 CB LEU X 146 26.323 -46.401 36.798 1.00 10.79 ATOM 10950 CB LEU X 146 26.472 -45.025 36.392 1.00 10.79 ATOM 10950 CB LEU X 146 26.472 -45.025 38.595 1.00 2.00 ATOM 10950 CB LEU X 146 26.472 -45.025 38.595 1.00 2.00 ATOM 10950 CB LEU X 146 26.472 -45.025 38.995 1.00 10.79 ATOM 10950 CB LEU X 146 26.472 -45.025 38.995 1.00 10.79 ATOM 10950 CB LEU X 146 26.472 -45.025 38.995 1.00 10.79 ATOM 10950 CB LEU X 146 26.472 -45.025 38.995 1.00 2.00 2.00 ATOM 10950 CB LEU X 146 26.472 -45.025 38.995 1.00 10.79 ATOM 10950 CB LEU X 146 26.472 -45.025 38.995 1.00 10.79 ATOM 10950 CB LEU X 146 26.472 -45.025 38.995 1.00 10.79 ATOM									
ATOM 10931 O ALA X 142									
ATOM 10932 CB ALA X 142	MOTA	10930	С	ALA X	142	23.732 -54.842			
ATOM 10932 CB ALA X 142	ATOM	10931	0	ALA X	142	22.565 -54.715	30.483	1.00	24.48
ATOM 10934 CA LEU X 143		10932	CB			24.070 -54.257	27.764	1.00	19.80
ATOM 10935 C LEU X 143									
ATOM 10936 C LEU X 143 25.602 -53.230 32.859 1.00 21.63 ATOM 10937 CB LEU X 143 26.720 -53.469 32.416 1.00 28.83 ATOM 10938 CG LEU X 143 26.720 -53.469 32.416 1.00 28.83 ATOM 10938 CG LEU X 143 24.714 -55.841 34.285 1.00 9.06 ATOM 10939 CD1 LEU X 143 24.714 -55.841 34.285 1.00 9.06 ATOM 10940 CD2 LEU X 143 25.983 -55.152 34.670 1.00 11.82 ATOM 10941 N GLY X 144 25.983 -55.152 34.670 1.00 11.82 ATOM 10942 CA GLY X 144 25.408 -52.326 33.818 1.00 27.81 ATOM 10944 C GLY X 144 26.553 -51.640 34.405 1.00 27.81 ATOM 10945 N CYS X 144 26.551 -51.640 34.405 1.00 27.81 ATOM 10946 CA CYS X 144 26.517 -50.526 35.380 1.00 27.81 ATOM 10947 C CYS X 145 26.921 -48.732 36.874 1.00 21.37 ATOM 10948 O CYS X 145 26.921 -48.732 36.874 1.00 23.22 ATOM 10949 CB CYS X 145 27.144 -47.341 36.353 1.00 13.73 ATOM 10949 CB CYS X 145 27.761 -48.862 38.098 1.00 23.22 ATOM 10950 N LEU X 146 26.472 -45.025 36.392 1.00 23.22 ATOM 10951 N LEU X 146 26.472 -45.025 36.392 1.00 10.79 ATOM 10955 CB LEU X 146 26.472 -45.025 36.392 1.00 10.79 ATOM 10955 CB LEU X 146 26.472 -45.025 36.392 1.00 10.79 ATOM 10955 CB LEU X 146 26.472 -45.025 36.392 1.00 10.79 ATOM 10955 CB LEU X 146 26.472 -45.025 36.392 1.00 10.79 ATOM 10955 CB LEU X 146 26.472 -45.025 36.392 1.00 10.79 ATOM 10955 CB LEU X 146 26.472 -45.025 36.392 1.00 10.79 ATOM 10955 CB LEU X 146 26.472 -45.025 36.392 1.00 10.79 ATOM 10955 CB LEU X 146 26.472 -45.025 36.392 1.00 10.79 ATOM 10956 CG LEU X 146 26.474 -47.341 38.384 1.00 10.79 ATOM 10957 CD1 LEU X 146 26.474 -47.343 35.611 1.00 10.79 ATOM 10958 C LEU X 146 26.474 -47.343 35.611 1.00 10.79 ATOM 10959 N VAL X 147 28.867 -41.133 38.948 1.00 10.75 ATOM 10950 C VAL X 147 28.867 -42.433 35.089 1.00 2.00 ATOM 10950 C VAL X 147 28.867 -41.741 38.384 1.00 15.54 ATOM 10960 CA VAL X 147 38.874 -41.741 38.384 1.00 15.54 ATOM 10960 CA VAL X 147 38.874 -41.741 38.884 1.00 15.54 ATOM 10960 CA VAL X 147 38.874 -41.741 38.884 1.00 15.54 ATOM 10960 CA VAL X 147 38.866 39.864 1.00 31.77 ATOM 10960 CA VAL X 147 38.874 -41.741 38.882 1.00 37.76 ATOM 10960 CA									
ATOM 10936 O LEU X 143 23.988 -55.172 33.113 1.00 28.83 ATOM 10937 CB LEU X 143 23.988 -55.172 33.113 1.00 5.15 ATOM 10938 CG LEU X 143 24.962 -57.292 33.937 1.00 4.85 ATOM 10940 CD2 LEU X 143 25.983 -55.152 34.670 1.00 11.82 ATOM 10941 N GLY X 144 26.553 -51.620 33.818 1.00 21.42 ATOM 10942 CA GLY X 144 26.553 -51.640 34.405 1.00 26.23 ATOM 10943 C GLY X 144 26.553 -51.640 34.405 1.00 27.81 ATOM 10945 N CYS X 145 27.212 -49.826 35.937 1.00 27.81 ATOM 10945 N CYS X 145 27.212 -49.826 35.937 1.00 22.11 ATOM 10946 CA CYS X 145 26.921 -447.321 36.353 1.00 15.33 ATOM 10949 CB CYS X 145 27.212 -49.826 35.937 1.00 22.11 ATOM 10949 CB CYS X 145 28.059 -47.112 35.575 1.00 23.22 ATOM 10950 SG CYS X 145 27.761 -48.862 38.098 1.00 15.33 ATOM 10950 SG CYS X 145 27.427 -50.471 38.783 1.00 16.51 ATOM 10952 CA LEU X 146 26.323 -46.401 36.798 1.00 10.96 ATOM 10955 CB LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10955 CB LEU X 146 26.472 -45.025 36.392 1.00 10.79 ATOM 10955 CB LEU X 146 26.250 -43.975 38.523 1.00 10.72 ATOM 10950 CG LEU X 146 26.250 -43.975 38.523 1.00 10.72 ATOM 10957 CD1 LEU X 146 26.250 -43.975 38.523 1.00 10.72 ATOM 10950 CG LEU X 146 26.250 -43.975 38.523 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.79 ATOM 10955 CB LEU X 146 26.250 -43.975 38.523 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -475 0.995 37.571 1.00 25.78 ATOM 10950 CG LEU X 146 26.472 -475 0.995 37.571 1.0	ATOM.	10934	CA			24.392 -53.970			
ATOM 10936 O LEU X 143 23.988 -55.172 33.113 1.00 28.83 ATOM 10937 CB LEU X 143 23.988 -55.172 33.113 1.00 5.15 ATOM 10938 CG LEU X 143 24.962 -57.292 33.937 1.00 4.85 ATOM 10940 CD2 LEU X 143 25.983 -55.152 34.670 1.00 11.82 ATOM 10941 N GLY X 144 26.553 -51.620 33.818 1.00 21.42 ATOM 10942 CA GLY X 144 26.553 -51.640 34.405 1.00 26.23 ATOM 10943 C GLY X 144 26.553 -51.640 34.405 1.00 27.81 ATOM 10945 N CYS X 145 27.212 -49.826 35.937 1.00 27.81 ATOM 10945 N CYS X 145 27.212 -49.826 35.937 1.00 22.11 ATOM 10946 CA CYS X 145 26.921 -447.321 36.353 1.00 15.33 ATOM 10949 CB CYS X 145 27.212 -49.826 35.937 1.00 22.11 ATOM 10949 CB CYS X 145 28.059 -47.112 35.575 1.00 23.22 ATOM 10950 SG CYS X 145 27.761 -48.862 38.098 1.00 15.33 ATOM 10950 SG CYS X 145 27.427 -50.471 38.783 1.00 16.51 ATOM 10952 CA LEU X 146 26.323 -46.401 36.798 1.00 10.96 ATOM 10955 CB LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10955 CB LEU X 146 26.472 -45.025 36.392 1.00 10.79 ATOM 10955 CB LEU X 146 26.250 -43.975 38.523 1.00 10.72 ATOM 10950 CG LEU X 146 26.250 -43.975 38.523 1.00 10.72 ATOM 10957 CD1 LEU X 146 26.250 -43.975 38.523 1.00 10.72 ATOM 10950 CG LEU X 146 26.250 -43.975 38.523 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.79 ATOM 10955 CB LEU X 146 26.250 -43.975 38.523 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -45.025 36.392 1.00 10.72 ATOM 10950 CG LEU X 146 26.472 -475 0.995 37.571 1.00 25.78 ATOM 10950 CG LEU X 146 26.472 -475 0.995 37.571 1.0	ATOM	10935	С	LEU X	143	25.602 -53.230	32.859	1.00	21.63
ATOM 10938 CG LEU X 143			0			26,720 -53,469	32,416	1.00	28.83
ATOM 10938 CG LEU X 143									
ATOM 10939 CD1 LEU X 143									
ATOM 10940 CD2 LEU X 143	ATOM	10938	CG	LEU X	143				
ATOM 10941 N GLY X 144 25.408 -52.326 33.818 1.00 21.42 ATOM 10942 CA GLY X 144 26.553 -51.640 34.405 1.00 26.23 ATOM 10943 C GLY X 144 26.553 -51.640 34.405 1.00 26.23 ATOM 10944 O GLY X 144 26.217 -50.526 35.380 1.00 27.81 ATOM 10945 N CYS X 145 25.044 -50.295 35.622 1.00 33.25 ATOM 10945 N CYS X 145 27.212 -49.826 35.937 1.00 22.11 ATOM 10946 CA CYS X 145 26.921 -48.732 36.874 1.00 13.73 ATOM 10947 C CYS X 145 27.144 -47.341 36.353 1.00 15.33 ATOM 10948 O CYS X 145 28.059 -47.112 35.575 1.00 23.22 ATOM 10949 CB CYS X 145 27.761 -48.862 38.098 1.00 9.29 ATOM 10950 SG CYS X 145 27.427 -50.471 38.783 1.00 16.51 ATOM 10951 N LEU X 146 26.323 -46.401 36.798 1.00 10.96 ATOM 10952 CA LEU X 146 26.323 -46.401 36.798 1.00 10.96 ATOM 10955 CB LEU X 146 26.250 -43.975 38.523 1.00 10.79 ATOM 10955 CB LEU X 146 26.250 -43.975 38.523 1.00 10.79 ATOM 10955 CB LEU X 146 26.250 -43.975 38.523 1.00 10.79 ATOM 10955 CB LEU X 146 25.148 -44.470 35.913 1.00 2.00 ATOM 10955 CD LEU X 146 25.148 -44.470 35.913 1.00 2.00 ATOM 10955 CD LEU X 146 25.148 -44.470 35.913 1.00 2.00 ATOM 10957 CD1 LEU X 146 25.083 -42.958 35.995 1.00 2.00 ATOM 10959 N VAL X 147 28.890 -43.231 38.632 1.00 13.60 ATOM 10959 N VAL X 147 28.891 -41.741 38.384 1.00 18.56 ATOM 10960 CA VAL X 147 28.891 -43.231 38.666 1.00 2.00 ATOM 10960 CA VAL X 147 28.891 -43.231 38.666 1.00 2.00 13.70 ATOM 10964 CG1 VAL X 147 30.429 -43.684 38.624 1.00 13.36 ATOM 10966 CA VAL X 147 30.429 -43.684 38.824 1.00 18.51 ATOM 10966 CA VAL X 147 30.429 -43.684 38.824 1.00 18.51 ATOM 10966 CA VAL X 147 30.429 -43.684 38.820 1.00 31.77 ATOM 10968 C LYS X 148 27.913 -93.99 1 38.820 1.00 31.77 ATOM 10966 CA VAL X 147 30.451 -45.201 38.666 1.00 2.00 ATOM 10967 CA LYS X 148 27.913 -38.666 39.864 1.00 36.19 ATOM 10967 CA LYS X 148 27.913 -38.699 1 38.820 1.00 33.38 ATOM 10967 CA LYS X 148 27.913 -38.699 1 38.820 1.00 33.38 ATOM 10967 CA LYS X 148 27.913 -38.699 1 38.820 1.00 33.38 ATOM 10970 CB LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10975 CA ASP X 149 28.220 -37.474 39.367 1.00 38.2	ATOM	10939	CD1	TEA X	143	24.962 -57.292	33.937	1.00	4.85
ATOM 10941 N GLY X 144 25.408 -52.326 33.818 1.00 21.42 ATOM 10942 CA GLY X 144 26.553 -51.640 34.405 1.00 26.23 ATOM 10943 C GLY X 144 26.553 -51.640 34.405 1.00 26.23 ATOM 10944 O GLY X 144 26.217 -50.526 35.380 1.00 27.81 ATOM 10945 N CYS X 145 25.044 -50.295 35.622 1.00 33.25 ATOM 10945 N CYS X 145 27.212 -49.826 35.937 1.00 22.11 ATOM 10946 CA CYS X 145 26.921 -48.732 36.874 1.00 13.73 ATOM 10947 C CYS X 145 27.144 -47.341 36.353 1.00 15.33 ATOM 10948 O CYS X 145 28.059 -47.112 35.575 1.00 23.22 ATOM 10949 CB CYS X 145 27.761 -48.862 38.098 1.00 9.29 ATOM 10950 SG CYS X 145 27.427 -50.471 38.783 1.00 16.51 ATOM 10951 N LEU X 146 26.323 -46.401 36.798 1.00 10.96 ATOM 10952 CA LEU X 146 26.323 -46.401 36.798 1.00 10.96 ATOM 10955 CB LEU X 146 26.250 -43.975 38.523 1.00 10.79 ATOM 10955 CB LEU X 146 26.250 -43.975 38.523 1.00 10.79 ATOM 10955 CB LEU X 146 26.250 -43.975 38.523 1.00 10.79 ATOM 10955 CB LEU X 146 25.148 -44.470 35.913 1.00 2.00 ATOM 10955 CD LEU X 146 25.148 -44.470 35.913 1.00 2.00 ATOM 10955 CD LEU X 146 25.148 -44.470 35.913 1.00 2.00 ATOM 10957 CD1 LEU X 146 25.083 -42.958 35.995 1.00 2.00 ATOM 10959 N VAL X 147 28.890 -43.231 38.632 1.00 13.60 ATOM 10959 N VAL X 147 28.891 -41.741 38.384 1.00 18.56 ATOM 10960 CA VAL X 147 28.891 -43.231 38.666 1.00 2.00 ATOM 10960 CA VAL X 147 28.891 -43.231 38.666 1.00 2.00 13.70 ATOM 10964 CG1 VAL X 147 30.429 -43.684 38.624 1.00 13.36 ATOM 10966 CA VAL X 147 30.429 -43.684 38.824 1.00 18.51 ATOM 10966 CA VAL X 147 30.429 -43.684 38.824 1.00 18.51 ATOM 10966 CA VAL X 147 30.429 -43.684 38.820 1.00 31.77 ATOM 10968 C LYS X 148 27.913 -93.99 1 38.820 1.00 31.77 ATOM 10966 CA VAL X 147 30.451 -45.201 38.666 1.00 2.00 ATOM 10967 CA LYS X 148 27.913 -38.666 39.864 1.00 36.19 ATOM 10967 CA LYS X 148 27.913 -38.699 1 38.820 1.00 33.38 ATOM 10967 CA LYS X 148 27.913 -38.699 1 38.820 1.00 33.38 ATOM 10967 CA LYS X 148 27.913 -38.699 1 38.820 1.00 33.38 ATOM 10970 CB LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10975 CA ASP X 149 28.220 -37.474 39.367 1.00 38.2	ATOM	10940	CD2	T.F.U X	143	25,983 -55,152	34,670	1.00	11.82
ATOM 10942 CA GLY X 144 26.553 -51.640 34.405 1.00 26.23 ATOM 10943 C GLY X 144 26.217 -50.526 35.380 1.00 27.81 ATOM 10945 N CYS X 145 27.212 -49.826 35.937 1.00 22.11 ATOM 10946 CA CYS X 145 27.212 -49.826 35.937 1.00 22.11 ATOM 10946 CA CYS X 145 26.921 -48.732 36.874 1.00 13.73 ATOM 10947 C CYS X 145 26.921 -48.732 36.874 1.00 13.73 ATOM 10948 O CYS X 145 28.059 -47.112 35.575 1.00 23.22 ATOM 10949 CB CYS X 145 27.761 -48.862 38.098 1.00 9.29 ATOM 10950 SG CYS X 145 27.761 -48.862 38.098 1.00 10.59 ATOM 10951 N LEU X 146 26.323 -46.401 36.798 1.00 10.96 ATOM 10952 CA LEU X 146 26.472 -45.025 36.392 1.00 6.79 ATOM 10953 C LEU X 146 26.990 -44.258 37.603 1.00 10.79 ATOM 10955 CB LEU X 146 26.990 -44.258 37.603 1.00 10.79 ATOM 10955 CB LEU X 146 26.290 -43.975 38.523 1.00 10.79 ATOM 10955 CB LEU X 146 25.083 -42.958 35.995 1.00 2.00 ATOM 10955 CB LEU X 146 25.083 -42.958 35.995 1.00 2.00 ATOM 10955 CB LEU X 146 26.990 -44.258 37.603 1.00 10.79 ATOM 10955 CB LEU X 146 26.990 -34.2958 35.995 1.00 2.00 ATOM 10955 CB LEU X 146 25.083 -42.958 35.995 1.00 2.00 ATOM 10956 CG LEU X 146 23.987 -42.433 35.611 1.00 8.29 ATOM 10957 CD1 LEU X 146 26.416 -42.374 35.611 1.00 8.29 ATOM 10958 CD2 LEU X 146 23.987 -42.433 35.699 1.00 2.00 ATOM 10959 N VAL X 147 28.281 -43.932 37.571 1.00 15.78 ATOM 10960 CA VAL X 147 28.980 -43.231 38.632 1.00 13.60 ATOM 10967 CA LYL X 147 30.429 -43.684 38.624 1.00 18.51 ATOM 10966 N LYS X 148 27.915 -41.133 38.981 1.00 25.42 ATOM 10966 N LYS X 148 27.915 -41.133 38.981 1.00 25.42 ATOM 10967 CA LYS X 148 27.945 -39.991 41.058 1.00 37.26 ATOM 10967 CA LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10970 CB LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10971 CG LYS X 148 25.542 -38.991 41.058 1.00 37.54 ATOM 10977 CA ASP X 149 28.220 -37.474 39.367 1.00 38.22 ATOM 10977 CA ASP X 149 28.220 -37.473 39.367 1.00 38.32									
ATOM 10943 C GLY X 144 26.217 -50.526 35.380 1.00 27.81 ATOM 10944 O GLY X 144 25.044 -50.295 35.622 1.00 33.25 ATOM 10945 N CYS X 145 27.212 -49.826 35.937 1.00 22.11 ATOM 10946 CA CYS X 145 26.921 -48.732 36.874 1.00 13.73 ATOM 10947 C CYS X 145 26.921 -48.732 36.874 1.00 13.73 ATOM 10948 O CYS X 145 27.144 -47.341 36.353 1.00 15.33 ATOM 10948 O CYS X 145 27.144 -47.341 36.353 1.00 15.33 ATOM 10949 CB CYS X 145 27.761 -48.862 38.098 1.00 9.29 ATOM 10950 SG CYS X 145 27.761 -48.862 38.098 1.00 9.29 ATOM 10950 N LEU X 146 26.323 -46.401 36.798 1.00 10.96 ATOM 10951 N LEU X 146 26.323 -46.401 36.798 1.00 10.96 ATOM 10952 CA LEU X 146 26.920 -44.258 37.603 1.00 10.79 ATOM 10953 C LEU X 146 26.990 -44.258 37.603 1.00 10.79 ATOM 10955 CB LEU X 146 26.250 -43.975 38.523 1.00 10.79 ATOM 10955 CG LEU X 146 26.250 -43.975 38.523 1.00 10.79 ATOM 10955 CG LEU X 146 26.250 -43.975 38.523 1.00 10.79 ATOM 10955 CG LEU X 146 26.416 -42.374 35.611 1.00 8.29 ATOM 10955 CD LEU X 146 26.416 -42.374 35.611 1.00 8.29 ATOM 10955 CD LEU X 146 26.416 -42.374 35.611 1.00 8.29 ATOM 10956 CG LEU X 146 26.416 -42.374 35.611 1.00 8.29 ATOM 10956 CG LEU X 146 26.416 -42.374 35.611 1.00 8.29 ATOM 10956 CG LEU X 146 23.987 -42.433 35.089 1.00 2.00 ATOM 10950 CA VAL X 147 28.980 -43.231 38.632 1.00 13.60 ATOM 10960 CA VAL X 147 28.980 -43.231 38.632 1.00 13.60 ATOM 10960 CA VAL X 147 28.980 -43.231 38.632 1.00 13.60 ATOM 10966 C VAL X 147 29.732 -41.176 37.697 1.00 15.78 ATOM 10966 C VAL X 147 30.429 -43.684 38.624 1.00 18.56 ATOM 10966 C CYAL X 147 30.429 -43.684 38.624 1.00 18.51 ATOM 10966 C CYAL X 147 30.429 -43.684 38.624 1.00 18.54 ATOM 10966 C LYS X 148 27.945 -39.691 38.820 1.00 30.95 ATOM 10967 CA LYS X 148 27.945 -39.991 38.820 1.00 30.95 ATOM 10967 CA LYS X 148 27.945 -39.991 38.820 1.00 30.95 ATOM 10967 CA LYS X 148 25.530 -39.495 38.717 1.00 30.95 ATOM 10970 CB LYS X 148 25.530 -39.495 38.231 1.00 43.35 ATOM 10971 CG LYS X 148 25.530 -30.451 43.747 39.367 1.00 38.22 ATOM 10973 CC LYS X 148 25.530 -30.474 39.367 1.00 38.22 ATOM 10	-								
ATOM 10944 O GLY X 144	ATOM		CA		144				
ATOM 10945 N CYS X 145	ATOM	10943	С	GLY X	144	26.217 -50.526	35.380	1.00	27.81
ATOM 10945 N CYS X 145	MOTA	10944	0	GLY X	144	25,044 -50,295	35.622	1.00	33.25
ATOM 10946 CA CYS X 145			-						
ATOM 10947 C CYS X 145 27.144 -47.341 36.353 1.00 15.33 ATOM 10948 O CYS X 145 28.059 -47.112 35.575 1.00 23.22 ATOM 10949 CB CYS X 145 27.761 -48.862 38.098 1.00 9.29 ATOM 10950 SG CYS X 145 27.427 -50.471 38.783 1.00 16.51 ATOM 10951 N LEU X 146 26.323 -46.401 36.798 1.00 10.96 ATOM 10952 CA LEU X 146 26.472 -45.025 36.392 1.00 6.79 ATOM 10953 C LEU X 146 26.250 -43.975 38.523 1.00 10.72 ATOM 10955 CB LEU X 146 26.250 -43.975 38.523 1.00 10.72 ATOM 10955 CB LEU X 146 25.148 -44.470 35.913 1.00 2.00 ATOM 10957 CD1 LEU X 146 25.083 -42.958 35.995 1.00 2.00 ATOM 10959 N VAL X 147 28.281 -43.932 37.571 1.00 15.78 ATOM 10959 N VAL X 147 28.281 -43.932 37.571 1.00 15.78 ATOM 10960 CA VAL X 147 28.281 -43.932 37.571 1.00 15.78 ATOM 10961 C VAL X 147 29.732 -41.176 37.697 1.00 16.33 ATOM 10965 CG2 VAL X 147 30.429 -43.684 38.624 1.00 11.34 ATOM 10965 CG2 VAL X 147 30.429 -43.684 38.624 1.00 11.34 ATOM 10966 C LYS X 148 27.945 -39.691 38.866 1.00 2.00 ATOM 10966 CG VAL X 147 30.451 -45.201 38.666 1.00 2.00 ATOM 10966 C LYS X 148 27.945 -39.691 38.820 1.00 31.77 ATOM 10967 CA LYS X 148 27.945 -39.691 38.820 1.00 31.77 ATOM 10967 CA LYS X 148 27.945 -39.691 38.820 1.00 31.77 ATOM 10969 C LYS X 148 27.945 -39.691 38.820 1.00 31.77 ATOM 10969 C LYS X 148 27.945 -39.691 38.820 1.00 31.75 ATOM 10970 CB LYS X 148 25.530 -39.144 37.355 1.00 37.26 ATOM 10970 CB LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10971 CG LYS X 148 25.530 -39.144 37.355 1.00 37.54 ATOM 10973 CE LYS X 148 25.530 -39.144 37.355 1.00 37.54 ATOM 10973 CE LYS X 148 25.530 -39.144 37.355 1.00 38.22 ATOM 10973 CE LYS X 148 25.530 -39.144 37.355 1.00 38.22 ATOM 10975 N ASP X 149 28.766 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 28.766 -36.321 40.121 1.00 40.18									
ATOM 10948 O CYS X 145 28.059 -47.112 35.575 1.00 23.22 ATOM 10949 CB CYS X 145 27.761 -48.862 38.098 1.00 9.29 ATOM 10950 SG CYS X 145 27.761 -48.862 38.098 1.00 16.51 ATOM 10951 N LEU X 146 26.323 -46.401 36.798 1.00 10.96 ATOM 10952 CA LEU X 146 26.472 -45.025 36.392 1.00 6.79 ATOM 10953 C LEU X 146 26.472 -45.025 36.392 1.00 10.79 ATOM 10954 O LEU X 146 26.250 -43.975 38.523 1.00 10.72 ATOM 10955 CB LEU X 146 25.148 -44.470 35.913 1.00 2.00 ATOM 10956 CG LEU X 146 25.083 -42.958 35.995 1.00 2.00 ATOM 10957 CD1 LEU X 146 26.416 -42.374 35.611 1.00 8.29 ATOM 10959 N VAL X 147 28.281 -43.932 37.571 1.00 15.78 ATOM 10959 N VAL X 147 28.281 -43.932 37.571 1.00 15.78 ATOM 10960 CA VAL X 147 28.8874 -41.741 38.384 1.00 18.56 ATOM 10962 O VAL X 147 29.732 -41.176 37.697 1.00 16.33 ATOM 10963 CB VAL X 147 29.732 -41.176 37.697 1.00 16.33 ATOM 10966 N LYS X 148 27.815 -41.133 38.948 1.00 2.00 ATOM 10966 N LYS X 148 27.815 -41.133 38.948 1.00 2.00 ATOM 10966 CG VAL X 147 30.429 -43.684 38.624 1.00 11.34 ATOM 10966 N LYS X 148 27.815 -41.133 38.948 1.00 25.42 ATOM 10967 CA LYS X 148 27.815 -41.133 38.948 1.00 25.42 ATOM 10967 CA LYS X 148 27.815 -41.133 38.948 1.00 25.42 ATOM 10969 O LYS X 148 27.943 -38.686 39.864 1.00 37.26 ATOM 10970 CB LYS X 148 25.530 -39.144 37.355 1.00 37.26 ATOM 10971 CG LYS X 148 25.530 -39.144 37.355 1.00 37.54 ATOM 10972 CD LYS X 148 25.530 -39.144 37.355 1.00 37.54 ATOM 10973 CE LYS X 148 25.530 -39.144 37.355 1.00 37.54 ATOM 10973 CE LYS X 148 25.530 -39.144 37.355 1.00 37.54 ATOM 10973 CE LYS X 148 25.530 -39.144 37.355 1.00 37.54 ATOM 10973 CE LYS X 148 25.530 -39.144 37.355 1.00 37.54 ATOM 10973 CE LYS X 148 25.530 -37.474 39.367 1.00 38.64 ATOM 10975 CA ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 28.726 -36.321 40.121 1.00 40.18									
ATOM 10949 CB CYS X 145	ATOM	10947	C	CYS X	145		36.353	1.00	15.33
ATOM 10949 CB CYS X 145	ATOM	10948	0	CYS X	145	28.059 -47.112	35.575	1.00	23.22
ATOM 10950 SG CYS X 145		10949	CB	CYS X	145		38.098	1.00	9.29
ATOM 10951 N LEU X 146									
ATOM 10952 CA LEU X 146									
ATOM 10953 C LEU X 146	ATOM		N						
ATOM 10954 O LEU X 146	ATOM	10952	CA	LEU X	146	26.472 -45.025	36.392	1.00	6.79
ATOM 10954 O LEU X 146	MOTA	10953	C	LEU X	146	26.990 -44.258	37,603	1.00	10.79
ATOM 10955 CB LEU X 146									
ATOM 10956 CG LEU X 146									
ATOM 10957 CD1 LEU X 146									
ATOM 10958 CD2 LEU X 146	ATOM		CG	LEU X	146				
ATOM 10958 CD2 LEU X 146	ATOM	10957	CD1	LEU X	146	26.416 -42.374	35.611	1.00	8.29
ATOM 10959 N VAL X 147 28.281 -43.932 37.571 1.00 15.78 ATOM 10960 CA VAL X 147 28.980 -43.231 38.632 1.00 13.60 ATOM 10961 C VAL X 147 28.874 -41.741 38.384 1.00 18.56 ATOM 10962 O VAL X 147 29.732 -41.176 37.697 1.00 16.33 ATOM 10963 CB VAL X 147 30.429 -43.684 38.624 1.00 11.34 ATOM 10964 CG1 VAL X 147 31.166 -43.142 39.814 1.00 18.51 ATOM 10965 CG2 VAL X 147 30.451 -45.201 38.666 1.00 2.00 ATOM 10966 N LYS X 148 27.815 -41.133 38.948 1.00 25.42 ATOM 10967 CA LYS X 148 27.475 -39.691 38.820 1.00 31.77 ATOM 10968 C LYS X 148 27.943 -38.686 39.864 1.00 36.19 ATOM 10970 CB LYS X 148 28.024 -38.991 41.058 1.00 37.26 ATOM 10970 CB LYS X 148 25.530 -39.495 38.717 1.00 30.95 ATOM 10971 CG LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10972 CD LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10973 CE LYS X 148 25.548 -37.667 37.209 1.00 37.54 ATOM 10975 N ASP X 149 28.220 -37.474 39.367 1.00 38.64 ATOM 10976 CA ASP X 149 28.220 -37.474 39.367 1.00 43.89 ATOM 10977 C ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89	АТОМ	10958	CD2	TEU X	146	23.987 -42.433	35.089	1.00	
ATOM 10960 CA VAL X 147 28.980 -43.231 38.632 1.00 13.60 ATOM 10961 C VAL X 147 28.874 -41.741 38.384 1.00 18.56 ATOM 10962 O VAL X 147 29.732 -41.176 37.697 1.00 16.33 ATOM 10963 CB VAL X 147 30.429 -43.684 38.624 1.00 11.34 ATOM 10965 CG2 VAL X 147 31.166 -43.142 39.814 1.00 18.51 ATOM 10966 N LYS X 148 27.815 -41.133 38.948 1.00 25.42 ATOM 10967 CA LYS X 148 27.475 -39.691 38.820 1.00 31.77 ATOM 10968 C LYS X 148 27.943 -38.686 39.864 1.00 36.19 ATOM 10970 CB LYS X 148 28.024 -38.991 41.058 1.00 37.26 ATOM 10971 CG LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10972 CD LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10973 CE LYS X 148 25.548 -37.667 37.209 1.00 37.54 ATOM 10974 NZ LYS X 148 24.149 -37.116 37.018 1.00 38.22 ATOM 10975 N ASP X 149 28.220 -37.474 39.367 1.00 43.35 ATOM 10976 CA ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89									
ATOM 10961 C VAL X 147 28.874 -41.741 38.384 1.00 18.56 ATOM 10962 O VAL X 147 29.732 -41.176 37.697 1.00 16.33 ATOM 10963 CB VAL X 147 30.429 -43.684 38.624 1.00 11.34 ATOM 10964 CG1 VAL X 147 31.166 -43.142 39.814 1.00 18.51 ATOM 10965 CG2 VAL X 147 30.451 -45.201 38.666 1.00 2.00 ATOM 10966 N LYS X 148 27.815 -41.133 38.948 1.00 25.42 ATOM 10967 CA LYS X 148 27.475 -39.691 38.820 1.00 31.77 ATOM 10968 C LYS X 148 27.943 -38.686 39.864 1.00 36.19 ATOM 10970 CB LYS X 148 28.024 -38.991 41.058 1.00 37.26 ATOM 10970 CB LYS X 148 25.530 -39.495 38.717 1.00 30.95 ATOM 10971 CG LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10972 CD LYS X 148 25.548 -37.667 37.209 1.00 37.54 ATOM 10973 CE LYS X 148 24.149 -37.116 37.018 1.00 38.22 ATOM 10974 NZ LYS X 148 23.650 -36.629 38.323 1.00 43.35 ATOM 10975 N ASP X 149 28.220 -37.474 39.367 1.00 38.64 ATOM 10976 CA ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89									
ATOM 10962 O VAL X 147 29.732 -41.176 37.697 1.00 16.33 ATOM 10963 CB VAL X 147 30.429 -43.684 38.624 1.00 11.34 ATOM 10964 CG1 VAL X 147 31.166 -43.142 39.814 1.00 18.51 ATOM 10965 CG2 VAL X 147 30.451 -45.201 38.666 1.00 2.00 ATOM 10966 N LYS X 148 27.815 -41.133 38.948 1.00 25.42 ATOM 10967 CA LYS X 148 27.475 -39.691 38.820 1.00 31.77 ATOM 10968 C LYS X 148 27.943 -38.686 39.864 1.00 36.19 ATOM 10970 CB LYS X 148 28.024 -38.991 41.058 1.00 37.26 ATOM 10971 CG LYS X 148 25.530 -39.495 38.717 1.00 30.95 ATOM 10972 CD LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10973 CE LYS X 148 25.548 -37.667 37.209 1.00 37.54 ATOM 10974 NZ LYS X 148 24.149 -37.116 37.018 1.00 38.22 ATOM 10975 N ASP X 149 28.220 -37.474 39.367 1.00 43.35 ATOM 10976 CA ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89									
ATOM 10963 CB VAL X 147 30.429 -43.684 38.624 1.00 11.34 ATOM 10964 CG1 VAL X 147 31.166 -43.142 39.814 1.00 18.51 ATOM 10965 CG2 VAL X 147 30.451 -45.201 38.666 1.00 2.00 ATOM 10966 N LYS X 148 27.815 -41.133 38.948 1.00 25.42 ATOM 10967 CA LYS X 148 27.475 -39.691 38.820 1.00 31.77 ATOM 10968 C LYS X 148 27.943 -38.686 39.864 1.00 36.19 ATOM 10970 CB LYS X 148 28.024 -38.991 41.058 1.00 37.26 ATOM 10971 CG LYS X 148 25.530 -39.495 38.717 1.00 30.95 ATOM 10972 CD LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10973 CE LYS X 148 25.548 -37.667 37.209 1.00 37.54 ATOM 10974 NZ LYS X 148 24.149 -37.116 37.018 1.00 38.22 ATOM 10975 N ASP X 149 28.220 -37.474 39.367 1.00 43.35 ATOM 10976 CA ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89	ATOM	10961	С	VAL X	147	28.874 -41.741	38.384	1.00	18.56
ATOM 10963 CB VAL X 147 30.429 -43.684 38.624 1.00 11.34 ATOM 10964 CG1 VAL X 147 31.166 -43.142 39.814 1.00 18.51 ATOM 10965 CG2 VAL X 147 30.451 -45.201 38.666 1.00 2.00 ATOM 10966 N LYS X 148 27.815 -41.133 38.948 1.00 25.42 ATOM 10967 CA LYS X 148 27.475 -39.691 38.820 1.00 31.77 ATOM 10968 C LYS X 148 27.943 -38.686 39.864 1.00 36.19 ATOM 10970 CB LYS X 148 28.024 -38.991 41.058 1.00 37.26 ATOM 10971 CG LYS X 148 25.530 -39.495 38.717 1.00 30.95 ATOM 10972 CD LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10973 CE LYS X 148 25.548 -37.667 37.209 1.00 37.54 ATOM 10974 NZ LYS X 148 24.149 -37.116 37.018 1.00 38.22 ATOM 10975 N ASP X 149 28.220 -37.474 39.367 1.00 38.64 ATOM 10976 CA ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89	ATOM	10962	0	VAL X	147	29.732 -41.176	37.697	1.00	16.33
ATOM 10964 CG1 VAL X 147 31.166 -43.142 39.814 1.00 18.51 ATOM 10965 CG2 VAL X 147 30.451 -45.201 38.666 1.00 2.00 ATOM 10966 N LYS X 148 27.815 -41.133 38.948 1.00 25.42 ATOM 10967 CA LYS X 148 27.475 -39.691 38.820 1.00 31.77 ATOM 10968 C LYS X 148 27.943 -38.686 39.864 1.00 36.19 ATOM 10970 CB LYS X 148 28.024 -38.991 41.058 1.00 37.26 ATOM 10971 CG LYS X 148 25.979 -39.495 38.717 1.00 30.95 ATOM 10972 CD LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10972 CD LYS X 148 25.548 -37.667 37.209 1.00 37.54 ATOM 10973 CE LYS X 148 24.149 -37.116 37.018 1.00 38.22 ATOM 10974 NZ LYS X 148 23.650 -36.629 38.323 1.00 43.35 ATOM 10975 N ASP X 149 28.220 -37.474 39.367 1.00 38.64 ATOM 10976 CA ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89	АТОМ	10963	CB			30.429 -43.684		1.00	11.34
ATOM 10965 CG2 VAL X 147 30.451 -45.201 38.666 1.00 2.00 ATOM 10966 N LYS X 148 27.815 -41.133 38.948 1.00 25.42 ATOM 10967 CA LYS X 148 27.475 -39.691 38.820 1.00 31.77 ATOM 10968 C LYS X 148 27.943 -38.686 39.864 1.00 36.19 ATOM 10970 CB LYS X 148 28.024 -38.991 41.058 1.00 37.26 ATOM 10971 CG LYS X 148 25.979 -39.495 38.717 1.00 30.95 ATOM 10972 CD LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10972 CD LYS X 148 25.548 -37.667 37.209 1.00 37.54 ATOM 10973 CE LYS X 148 24.149 -37.116 37.018 1.00 38.22 ATOM 10974 NZ LYS X 148 23.650 -36.629 38.323 1.00 43.35 ATOM 10975 N ASP X 149 28.220 -37.474 39.367 1.00 38.64 ATOM 10976 CA ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89									
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ATOM 10968 C LYS X 148 27.943 -38.686 39.864 1.00 36.19 ATOM 10969 O LYS X 148 28.024 -38.991 41.058 1.00 37.26 ATOM 10970 CB LYS X 148 25.979 -39.495 38.717 1.00 30.95 ATOM 10971 CG LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10972 CD LYS X 148 25.548 -37.667 37.209 1.00 37.54 ATOM 10973 CE LYS X 148 24.149 -37.116 37.018 1.00 38.22 ATOM 10974 NZ LYS X 148 23.650 -36.629 38.323 1.00 43.35 ATOM 10975 N ASP X 149 28.220 -37.474 39.367 1.00 38.64 ATOM 10976 CA ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89	ATOM	10966	N	LYS X	148	27.815 -41.133	38.948	1.00	25.42
ATOM 10968 C LYS X 148 27.943 -38.686 39.864 1.00 36.19 ATOM 10969 O LYS X 148 28.024 -38.991 41.058 1.00 37.26 ATOM 10970 CB LYS X 148 25.979 -39.495 38.717 1.00 30.95 ATOM 10971 CG LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10972 CD LYS X 148 25.548 -37.667 37.209 1.00 37.54 ATOM 10973 CE LYS X 148 24.149 -37.116 37.018 1.00 38.22 ATOM 10974 NZ LYS X 148 23.650 -36.629 38.323 1.00 43.35 ATOM 10975 N ASP X 149 28.220 -37.474 39.367 1.00 38.64 ATOM 10976 CA ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89	ATOM	10967	CA	LYS X	148	27.475 -39.691	38,820	1.00	31.77
ATOM 10969 O LYS X 148 28.024 -38.991 41.058 1.00 37.26 ATOM 10970 CB LYS X 148 25.979 -39.495 38.717 1.00 30.95 ATOM 10971 CG LYS X 148 25.530 -39.144 37.355 1.00 33.38 ATOM 10972 CD LYS X 148 25.548 -37.667 37.209 1.00 37.54 ATOM 10973 CE LYS X 148 24.149 -37.116 37.018 1.00 38.22 ATOM 10974 NZ LYS X 148 23.650 -36.629 38.323 1.00 43.35 ATOM 10975 N ASP X 149 28.220 -37.474 39.367 1.00 38.64 ATOM 10976 CA ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89									
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ATOM 10972 CD LYS X 148 25.548 -37.667 37.209 1.00 37.54 ATOM 10973 CE LYS X 148 24.149 -37.116 37.018 1.00 38.22 ATOM 10974 NZ LYS X 148 23.650 -36.629 38.323 1.00 43.35 ATOM 10975 N ASP X 149 28.220 -37.474 39.367 1.00 38.64 ATOM 10976 CA ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89	ATOM	10970	СВ	LYS X	148	25.979 -39.495	38.717	1.00	30.95
ATOM 10972 CD LYS X 148 25.548 -37.667 37.209 1.00 37.54 ATOM 10973 CE LYS X 148 24.149 -37.116 37.018 1.00 38.22 ATOM 10974 NZ LYS X 148 23.650 -36.629 38.323 1.00 43.35 ATOM 10975 N ASP X 149 28.220 -37.474 39.367 1.00 38.64 ATOM 10976 CA ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89	MOTA	10971	CG	LYS X	148	25.530 -39.144	37.355	1.00	33.38
ATOM 10973 CE LYS X 148 24.149 -37.116 37.018 1.00 38.22 ATOM 10974 NZ LYS X 148 23.650 -36.629 38.323 1.00 43.35 ATOM 10975 N ASP X 149 28.220 -37.474 39.367 1.00 38.64 ATOM 10976 CA ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89									
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ATOM 10975 N ASP X 149 28.220 -37.474 39.367 1.00 38.64 ATOM 10976 CA ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89									
ATOM 10976 CA ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89			ΝZ						
ATOM 10976 CA ASP X 149 28.726 -36.321 40.121 1.00 40.18 ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89	MOTA	10975	N	ASP X	149	28.220 -37.474	39.367	1.00	38.64
ATOM 10977 C ASP X 149 29.713 -36.523 41.247 1.00 43.89									
ATOM 10576 O ASP X 149 29.316 -36.684 42.394 1.00 46.55									
	ATOM	103/8	U	ASP X	149	29.310 -36.684	42.394	1.00	40.55

								1 00 30 63
ATOM	10979	CB	ASP X		27.572		40.651	1.00 39.63
ATOM	10980	CG	ASP X		26.402		39.768	1.00 46.99
ATOM	10981		ASP X		26.586		38.560	1.00 49.05
ATOM	10982	OD2	ASP X	149	25.319		40.267	1.00 49.84
MOTA	10983	N	TYR X		31.005		40.916	1.00 45.19
MOTA	10984	CA	TYR X		32.076		41.894	1.00 44.69
MOTA	10985	С	TYR X	150	33.158		41.431	1.00 42.93
ATOM	10986	0	TYR X	150	33.033		40.362	1.00 41.55
MOTA	10987	CB	TYR X		32.602		41.944	1.00 45.51
ATOM	10988	CG	TYR X	150	33.131		40.636	1.00 48.71
ATOM	10989		TYR X			-38.986	40.529	1.00 48.93
ATOM	10990		TYR X		32.340		39.490	1.00 47.36
MOTA	10991	CE1	TYR X	150		-39.401	39.324	1.00 47.82
ATOM	10992	CE2				-38.958	38.277	1.00 46.07
ATOM	10993	CZ	TYR X			-39.385	38.208	1.00 45.54
ATOM	10994	OH	TYR X			-39.828	37.025	1.00 45.92
MOTA	10995	N	PHE X	151		-35.485	42.229	1.00 42.26
ATOM	10996	CA	PHE X		35.272	-34.569	41.859	1.00 40.34
ATOM	10997	С	PHE X	151	36.416	-34.656	42.833	1.00 38.24
ATOM	10998	0	PHE X	151	36.195	-34.750	44.022	1.00 39.41
MOTA	10999	CB	PHE X	151	34.722	-33.153	41.852	1.00 39.54
ATOM	11000	CG	PHE X	151	35.728	-32.104	41.493	1.00 41.92
MOTA	11001	CD1	PHE X	151	36.871	-31.916	42.261	1.00 40.34
ATOM	11002	CD2	PHE X	151	35.493	-31.244	40.419	1.00 41.94
ATOM	11003	CE1	PHE X	151	37.756	-30.889	41.969	1.00 40.76
ATOM	11004	CE2	PHE X	151		-30.222	40.128	1.00 40.79
MOTA	11005	CZ	PHE X	151	37.505	-30.040	40.904	1.00 40.45
ATOM	11006	N	PRO X	152		-34.673	42.342	1.00 38.19
ATOM	11007	CA	PRO X	152	38.130	-34.616	40.955	1.00 37.59
ATOM	11008	С	PRO X	152	38.316	-36.038	40.495	1.00 36.83
ATOM	11009	0	PRO X	152		-36.942	41.233	1.00 40.93
ATOM	11010	CB	PRO X	152		-33.935	41.086	1.00 39.10
MOTA	11011	CG	PRO X			-34.476	42.374	1.00 38.76
ATOM	11012	CD	PRO X	152		-34.673	43.276	1.00 38.63
MOTA	11013	N	GLU X			-36.254	39.293	1.00 36.91
MOTA	11014	CA	GLU X			-37.623	38.856	1.00 30.12
ATOM	11015	С	GLU X			-38.093	39.797	1.00 27.69
ATOM	11016	0	GLU X			-37.313	40.518	1.00 30.29
ATOM	11017	CB	GLU X			-37.658	37.416	1.00 30.86
ATOM	11018	CG	GLU X			-37.422	36.397	1.00 37.77
ATOM	11019	CD	GLU X			-38.592	35.432	1.00 48.45
ATOM	11020	OE1				-38.352	34.211	1.00 56.31
MOTA	11021		GLU X			-39.752	35.880	1.00 46.83
MOTA	11022	N	PRO X			-39.377	39.848	1.00 24.62
MOTA	11023	CA	PRO X			-40.453	39.147	1.00 29.45
ATOM	11024	С	PRO X			-41.304	40.076	1.00 32.19 1.00 29.98
MOTA	11025	0	PRO X			-41.366	41.310	1.00 29.98
MOTA	11026	СВ	PRO X			-41.245	38.647	1.00 25.67
MOTA	11027	CG	PRO X			-41.120	39.854	1.00 24.21
ATOM	11028	CD	PRO X			-39.900	40.655	1.00 24.21
MOTA	11029	N	VAL			-41.962	39.471	1.00 30.91
ATOM	11030	CA	VAL			-42.830	40.216	1.00 32.57
ATOM	11031	С	VAL			-44.135	39.583	1.00 32.37
ATOM	11032	0	VAL			-44.347	38.417 39.964	1.00 37.16
ATOM	11033	CB	VAL			-42.544		1.00 39.30
MOTA	11034		VAL X			-42.298	38.459	1.00 43.02
MOTA	11035	CG2				-43.736 -45.017	40.444 40.320	1.00 31.60
MOTA	11036	N	THR >				39.738	1.00 33.84
MOTA	11037	CA	THR >			-46.302 -47.200	39.736	1.00 36.27
ATOM	11038	С	THR >	, 120	37.012	-31.200	33.011	2.00 00.21

							40 000	1.00 39.72
ATOM	11039	0	THR X 1	.56		-47.135	40.882	1.00 33.72
ATOM	11040	СВ	THR X 1	156	39.462	-46.928	40.401	
ATOM	11041	OG1	THR X 1			-48.249	39.882	1.00 40.49
ATOM	11042	CG2	THR X 1			-46.960	41.863	1.00 26.37
ATOM	11043	N	VAL X 1		36.720	-48.027	38.875	1.00 36.38
ATOM	11043	CA	VAL X			-48.903	38.906	1.00 32.90
		C	VAL X			-50.325	38.558	1.00 32.45
ATOM	11045		VAL X			-50.580	37.523	1.00 34.32
MOTA	11046	0 .	VAL X			-48.440	37.883	1.00 33.13
ATOM	11047	CB				-49.350	37.901	1.00 33.40
MOTA	11048		VAL X			-47.026	38.169	1.00 33.33
MOTA	11049		VAL X	157		-51.259	39.400	1.00 34.37
ATOM	11050	N	SER X		33.314	-52.653	39.141	1.00 36.10
MOTA	11051	CA	SER X	158			39.281	1.00 36.70
MOTA	11052	С	SER X			-53.529	39.201	1.00 41.08
ATOM	11053	0	SER X			-53.176		
MOTA	11054	CB	SER X	158		-53.138	40.123	1.00 36.01 1.00 42.18
ATOM	11055	OG	SER X	158		-54.414	40.588	
MOTA	11056	N	TRP X	159		-54.688	38.651	1.00 35.57
MOTA	11057	CA	TRP X	159		-55.582	38.758	1.00 34.76
MOTA	11058	С	TRP X	159		-56.863	39.511	1.00 38.11
ATOM	11059	0	TRP X	159		-57.458	39.353	1.00 37.24
ATOM	11060	СВ		159	32.943	-55.919	37.378	1.00 33.95
ATOM	11061	CG		159	32.250	-54.804	36.780	1.00 29.65
ATOM	11062	CD1		159	32.799	-53.816	36.066	1.00 30.34
ATOM	11062	CD2				-54.545	36.841	1.00 32.35
	11063	NE1				-52.936	35.658	1.00 32.96
ATOM	11065	CE2				-53.355	36.126	1.00 34.38
MOTA		CE3				-55.200	37.433	1.00 31.45
ATOM	11066	CZ2				-52.789	35.980	1.00 36.77
ATOM	11067	CZ3				-54.656	37.295	1.00 33.82
ATOM	11068				28.310		36.569	1.00 38.30
ATOM	11069	CH2	ASN X			-57.305	40.284	1.00 43.02
ATOM	11070	N		160		-58.504	41.115	1.00 42.16
MOTA	11071	CA				-58.563	41.647	1.00 42.80
MOTA	11072	С	ASN X ASN X			-59.514	41.394	1.00 40.56
MOTA	11073	0		160		-59.758	40.312	1.00 37.28
MOTA	11074	CB				2 -59.850	39.970	1.00 34.82
MOTA	11075	CG	ASN X			L -59.056	40.471	1.00 31.49
MOTA	11076	OD:				3 -60.802	39.120	1.00 34.67
ATOM	11077	ND2				9 -57.508	42.371	1.00 46.25
MOTA	11078	N	SER X				42.970	1.00 48.22
MOTA	11079	CA				57.355	42.223	1.00 50.04
MOTA		С	SER X			1 -58.116	42.776	1.00 49.59
ATOM		0	SER X		37.61	8 -59.042	44.418	1.00 49.73
ATOM	11082	СВ				7 -57.812		1.00 48.84
ATOM	11083	OG		161	34.52	6 -57.628	44.919	1.00 50.23
ATOM	11084	N	GLY X		37.20	7 -57.736	40.959	1.00 30.23
ATOM	11085	CA			38.22	7 -58.364	40.130	
ATOM	11086	С	GLY X		37.80	3 -59.508	39.223	1.00 47.58
ATOM		0	GLY X	162		5 -59.431		1.00 49.24
ATOM		N	ALA X	163		1 -60.568		1.00 47.68
ATOM		CA	ALA X	163		7 -61.730		1.00 49.17
ATOM			ALA X			9 -61.382		1.00 48.67
ATOM			ALA X		36.62	2 -62.012	36.626	
ATOM					35.78	6 -62.544	39.815	
ATOM			LEU X			1 -60.405		
ATOM						2 -60.016	36.305	
ATOM			LEU X		35.57	6 -58.925	35.665	1.00 40.10
			LEU X		35.59	3 -57.788		1.00 37.29
ATOM					33.33	2 -59.531	36.476	1.00 36.11
ATOM						8 -59.565		
MOTA	1 11098	, (6	ע טירוד י	. 103	32.70			

ATOM	11099	CD1	LEU X	164	32.571 -60.913	34.595	1.00 30.63
ATOM	11100			164	31.050 -59.297	35.547	1.00 36.07
ATOM	11101	N	THR X		36.250 -59.289	34.576	1.00 42.85
ATOM	11102	CA	THR X		37.071 -58.352	33.824	1.00 42.66
ATOM	11103	C	THR X	165	36.892 -58.598	32.361	1.00 42.29
ATOM	11103	0	THR X	165	37.698 -58.137	31.570	1.00 45.45
			THR X		38.543 -58.524		
ATOM	11105	CB				34.080	1.00 41.51
ATOM	11106	OG1		165	38.822 -59.909	34.318	1.00 46.93
MOTA	11107	CG2	THR X		38.957 -57.704	35.255	1.00 48.27
ATOM	11108	N	SER X		35.863 -59.344	31.990	1.00 40.08
ATOM	11109	CA	SER X		35.641 -59.592	30.588	1.00 40.13
ATOM	11110	С	SER X	166	34.366 -58.941	30.117	1.00 36.00
ATOM	11111	0	SER X	166	33.308 -59.110	30.700	1.00 39.32
ATOM	11112	CB	SER X	166	35.590 -61.087	30.298	1.00 46.14
ATOM	11113	OG	SER X	166	35.297 -61.306	28.924	1.00 54.00
ATOM	11114	N	GLY X	167	34.461 -58.192	29.045	1.00 31.12
ATOM	11115	CA	GLY X	167	33.271 -57.559	28.549	1.00 29.61
ATOM	11116	С		167	33.081 -56.216	29.183	1.00 25.21
ATOM	11117	Ō	GLY X		32.202 -55.464	28.809	1.00 30.05
ATOM	11118	N	VAL X		33.909 -55.897	30.149	1.00 21.16
ATOM	11119	CA	VAL X		33.768 -54.611	30.780	1.00 22.00
ATOM	11120	C		168	34.256 -53.524	29.847	1.00 22.00
ATOM	11121	0	VAL X		35.189 -53.728	29.101	1.00 29.54
ATOM	11122	CB	VAL X		34.589 -54.546	32.052	1.00 20.48
MOTA	11123				34.230 -53.341	32.815	1.00 22.93
ATOM	11124		VAL X		34.345 -55.771	32.877	1.00 24.18
ATOM	11125	N	HIS X		33.596 -52.385	29.852	1.00 18.34
ATOM	11126	CA	HIS X		34.010 -51.239	29.062	1.00 17.72
ATOM	11127	С	HIS X		33.700 -50.122	30.058	1.00 18.75
MOTA	11128	0	HIS X		32.550 -49.703	30.177	1.00 23.08
ATOM	11129	CB	HIS X	169	33.146 -50.985	27.801	1.00 16.77
MOTA	11130	CG	HIS X		33.142 -52.092	26.793	1.00 23.29
ATOM	11131	ND1	HIS X	169	34.215 -52.357	25.979	1.00 26.89
ATOM	11132		HIS X		32.174 -52.974	26.435	1.00 33.94
ATOM	11133	CEl	HIS X	169	33.911 -53.354	25.159	1.00 34.61
MOTA	11134	NE2	HIS X	169	32.671 -53.752	25.416	1.00 25.39
MOTA	11135	N	THR X	170	34.684 -49.649	30.806	1.00 16.92
ATOM	11136	CA	THR X	170	34.394 -48.551	31.719	1.00 12.90
ATOM	11137	С	THR X	170	34.834 -47.245	31.034	1.00 11.54
ATOM	11138	0	THR X	170	36.007 -46.985	30.858	1.00 7.53
ATOM	11139	CB	THR X		35.086 -48.715	33.092	1.00 11.83
ATOM	11140	OG1	THR X		35.420 -47.424	33.574	1.00 10.36
ATOM	11141	CG2	THR X		36.353 -49.519	33.026	1.00 15.69
ATOM	11142				33.863 -46.446		1.00 13.65
ATOM	11143	CA	PHE X		34.109 -45.201	29.904	1.00 13.64
ATOM	11144	C	PHE X		34.922 -44.127	30.577	1.00 17.74
ATOM	11145	ō	PHE X		35.048 -44.090	31.795	1.00 17.91
ATOM	11146	СВ	PHE X		32.792 -44.582	29.486	1.00 8.49
ATOM	11147	CG	PHE X				
					32.019 -45.433	28.569	
ATOM	11148		PHE X		31.250 -46.465	29.053	1.00 5.88
ATOM	11149		PHE X		32.101 -45.238	27.195	1.00 15.90
ATOM	11150		PHE X		30.570 -47.308	28.171	1.00 14.74
ATOM	11151		PHE X		31.418 -46.084	26.285	1.00 16.24
MOTA	11152	CZ	PHE X		30.655 -47.115	26.774	1.00 13.52
ATOM	11153	N	PRO X		35.513 -43.230	29.767	1.00 23.05
MOTA	11154	CA	PRO X		36.319 -42.127	30.278	1.00 23.87
ATOM	11155	С	PRO X		35.380 -41.100	30.883	1.00 25.97
ATOM	11156	0	PRO X		34.264 -40.873	30.371	1.00 25.11
MOTA	11157	CB	PRO X		36.994 -41.575	29.032	1.00 17.99
ATOM	11158	CG	PRO X	172	36.070 -41.872	27.968	1.00 16.63

					9 28.294	1.00 21.37
MOTA	11159	CD	PRO X 172	35.502 -43.21		1.00 27.63
MOTA	11160	N	ALA X 173	35.845 -40.44	9 31.946	
MOTA	11161	CA	ALA X 173	35.028 -39.43	0 32.608	1.00 28.54
ATOM	11162	С	ALA X 173	34.658 -38.27		1.00 26.41
MOTA	11163	ō	ALA X 173	35.364 -37.98	0 30.712	1.00 28.19
	11164	СВ	ALA X 173	35.756 -38.87	5 33.807	1.00 25.48
ATOM			VAL X 174	33.540 -37.63	6 31.935	1.00 25.25
MOTA	11165	N		33.135 -36.50		1.00 31.82
MOTA	11166	CA		32.519 -35.44		1.00 34.51
MOTA	11167	С	VAL X 174	31.450 -35.62	7 32.600	1.00 37.67
ATOM	11168	0	VAL X 174	31.450 -33.02		1.00 30.69
MOTA	11169	CB	VAL X 174	32.127 -36.87	9 30.031	1.00 28.24
ATOM	11170		VAL X 174	31.253 -35.68		1.00 25.24
MOTA	11171	CG2	VAL X 174	32.863 -37.32	3 28.784	
ATOM	11172	N	LEU X 175	33.221 -34.32	6 32.108	1.00 35.92
MOTA	11173	CA	LEU X 175	32.779 -33.21	.2 32.913	1.00 32.95
ATOM	11174	C	LEU X 175	31.446 -32.71	7 32.423	1.00 35.89
	11175	ŏ	LEU X 175	31.382 -31.98	31.436	1.00 37.57
ATOM		СВ	LEU X 175	33.781 -32.07	32.831	1.00 26.08
ATOM	11176		LEU X 175	33.790 -31.04		1.00 14.42
MOTA	11177	CG		33.447 -31.61		1.00 25.54
MOTA	11178	CD1		35.152 -30.56	34.083	1.00 31.80
MOTA	11179	CD2	LEU X 175	35.152 -30.50		1.00 36.96
ATOM	11180	N	GLN X 176	30.376 -33.11	10 33.100	1.00 37.02
MOTA	11181	CA	GLN X 176	29.060 -32.63		
ATOM	11182	С	GLN X 176	29.045 -31.19		1.00 36.52
ATOM	11183	0	GLN X 176	29.948 -30.76		1.00 32.00
ATOM	11184	CB	GLN X 176	27.950 -33.35		1.00 34.83
MOTA	11185	CG	GLN X 176	28.241 -33.50		1.00 33.34
ATOM	11186	CD	GLN X 176	27.749 -34.83	31 35.395	1.00 33.81
ATOM	11187	OE]		26.776 -35.3	51 34.855	1.00 30.42
	11188	NE2		28.417 -35.4		1.00 35.04
MOTA			SER X 177	28.024 -30.4		1.00 37.10
MOTA	11189	N	SER X 177	27894 -29.0		1.00 36.94
MOTA	11190	CA		27.945 -29.0		1.00 38.31
MOTA	11191	C	SER X 177	28.241 -30.1		1.00 42.61
ATOM	11192	0	SER X 177	26.583 -28.4		1.00 33.24
MOTA	11193	CB	SER X 177	26.363 -20.4		1.00 34.89
MOTA	11194	OG	SER X 177	26.376 -27.3	13 33.437	1.00 33.95
MOTA	11195	N	SER X 178	27.658 -27.9		1.00 36.44
MOTA	11196	CA		27.776 -28.0		1.00 30.44
ATOM	11197	С	SER X 178	29.273 -28.2		
MOTA	11198	0	SER X 178	29.987 -28.1	31 35.902	1.00 46.00
ATOM	11199	CB		26.974 -29.2	08 37.242	1.00 34.53
ATOM		OG		27.807 -30.2	87 37.613	1.00 32.78
ATOM	11201	N	GLY X 179	29.787 -28.6	69 38.017	
ATOM		CA		31.234 -28.8	54 38.037	1.00 43.27
		C.	GLY X 179	31.823 -30.2	62 38.119	1.00 45.45
MOTA		ő	GLY X 179	33.038 -30.4	51 37.965	1.00 44.07
ATOM			LEU X 180	30.963 -31.2	50 38.355	
MOTA				31.383 -32.6	30 38.549	
MOTA				31.393 -33.5		
MOTA			LEU X 180	30.706 -33.3		
ATOM			LEU X 180	30.706 -33.3		
MOTA	11209	CB		30.523 -33.2		
ATOM	11210	CG		29.675 -32.2	253 40.484	
ATOM		CD	1 LEU X 180	28.330 -32.0	39.845	
ATOM			2 LEU X 180	29.501 -32.8	331 41.864	
ATOM			TYR X 181	32.174 -34.6	616 37.503	
ATOM				32.364 -35.6	522 36.467	
ATOM			TYR X 181	31.347 -36.	736 36.546	
ATOM				30.769 -36.9	961 37.599	
				33.776 -36.		
ATOM				34.875 -35.2		
ATOM	11218	3 CG	TIV Y TOT	34.073 33.7		

MOTA	11219	CD1	TYR X 18	81	34.975	-34.607	35.072	1.00 44.29
ATOM	11220	CD2	TYR X 18	81	35.743	-34.813	37.327	1.00 47.32
ATOM	11221	CE1	TYR X 18		35.892	-33.611	34.849	1.00 44.67
ATOM	11222		TYR X 18		36.671		37.113	1.00 46.58
	11223	CZ	TYR X 1		36.737		35.873	1.00 46.93
MOTA			TYR X 1		37.651		35.658	1.00 49.25
MOTA	11224	OH				-37.449	35.443	1.00 40.58
ATOM	11225	N	SER X 1				35.440	1.00 39.41
MOTA	11226	CA	SER X 1			-38.573		1.00 39.41
ATOM	11227	С	SER X 1			-39.675	34.410	
MOTA	11228	0	SER X 1			-39.513	33.210	1.00 43.50
MOTA	11229	CB	SER X 1			-38.075	35.212	1.00 36.55
MOTA	11230	OG	SER X 1	82		-39.171	34.936	1.00 35.94
ATOM	11231	N	LEU X 1	83		-40.805	34.877	1.00 37.43
MOTA	11232	CA	LEU X 1	83	31.410	-41.885	33.970	1.00 32.60
ATOM	11233	С	LEU X 1		30.526	-43.089	34.267	1.00 33.58
ATOM	11234	ō	LEU X 1			-43.247	35.380	1.00 33.30
ATOM	11235	СВ	LEU X 1			-42.250	34.155	1.00 28.63
ATOM	11236	CG	LEU X 1			-43.048	35.377	1.00 20.42
						-44.461	35.309	1.00 18.15
ATOM	11237	CD1				-43.077	35.399	1.00 22.51
ATOM	11238	CD2				-43.947	33.276	1.00 32.61
MOTA	11239	N	SER X 1					1.00 32.01
MOTA	11240	CA	SER X 1			-45.142	33.431	1.00 25.75
MOTA	11241	С	SER X 1			-46.371	33.092	
MOTA	11242	0	SER X 1			-46.417	32.063	1.00 26.83
MOTA	11243	CB	SER X 1			-45.044	32.492	1.00 32.26
ATOM	11244	OG	SER X 1	.84		-45.415	33.130	1.00 36.98
MOTA	11245	N	SER X 1	.85		-47.367	33.954	1.00 23.40
MOTA	11246	CA	SER X 1	185	31.164	-48.569	33.680	1.00 24.81
ATOM	11247	С	SER X 1		30.134	-49.612	33.275	1.00 27.71
ATOM	11248	Ō	SER X 1		29.166	-49.829	34.017	1.00 28.44
ATOM	11249	СВ	SER X 1			-49.034	34.933	1.00 21.34
ATOM	11250	OG	SER X 1			-49.998	34.599	1.00 13.15
ATOM	11251	N	VAL X 1			-50.256	32.121	1.00 25.50
ATOM	11252	CA	VAL X 1			-51.245	31.633	1.00 22.34
	11252	C	VAL X 1			-52.553	31.257	1.00 22.59
ATOM			VAL X 1			-52.602	30.935	1.00 25.13
ATOM	11254	O				-50.719	30.443	1.00 21.47
ATOM	11255	CB	VAL X 1			-51.845	29.722	1.00 27.00
ATOM	11256	CG1				-49.737	30.906	1.00 26.90
MOTA	11257	CG2					31.290	1.00 20.30
ATOM	11258	N	VAL X 1			-53.614		1.00 22.71
MOTA	11259	CA	VAL X 1			-54.949	30.971	1.00 19.53
MOTA	11260	С	VAL X 1			-55.761	30.322	
MOTA	11261	0	VAL X I			-55.606	30.624	1.00 20.33
MOTA	11262	CB	VAL X 1		30.106	-55.703	32.197	
MOTA	11263	CG1	. VAL X	187		-55.555	33.251	1.00 16.54
MOTA	11264	CG2	YAL X	187		-57.174	31.823	1.00 20.30
ATOM	11265	N	THR X	188		-56.615	29.397	1.00 14.77
MOTA	11266	CA	THR X	188		-57.413	28.760	1.00 15.35
MOTA	11267	С	THR X	188		-58.846	2 <u>9</u> .192	1.00 19.51
ATOM	11268	0	THR X			-59.331	29.201	1.00 22.30
ATOM	11269	СВ	THR X			-57.217	27.229	1.00 7.71
ATOM	11270	OG1				-57.811	26.699	1.00 17.12
MOTA	11271	CG2				-55.770	26.900	1.00 2.10
ATOM	11272	N	VAL X			-59.499	29.595	1.00 21.00
	11272	CA	VAL X		27 213	-60.863	30.061	1.00 17.57
MOTA	11273	C	VAL X		26 131	-61.612	29.338	1.00 19.94
MOTA						-61.023	28.744	1.00 18.19
ATOM	11275	0	VAL X			-60.920	31.558	1.00 15.91
ATOM	11276	CB	VAL X		27 000	_50 050	32.262	1.00 13.31
MOTA	11277		l VAL X			-59.956		1.00 14.13
ATOM	11278	CG	2 VAL X	188	25.513	-60.517	31.850	1.00 17.39

			_	_		60 000	20 270	1.00 2	1 21
MOTA	11279	N	PRO X 19			-62.931	29.370		
MOTA	11280	CA	PRO X 19	0		-63.732	28.697	1.00 2	
MOTA	11281	С	PRO X 19	0		-63.514	29.447	1.00 3	
ATOM	11282	0	PRO X 19	0		-63.428	30.676	1.00 2	
ATOM	11283	CB	PRO X 19	90		-65.157	28.828	1.00 2	
MOTA	11284	CG	PRO X 19		27.132	-65.034	29.273	1.00 2	
ATOM	11285	CD	PRO X 19			-63.759	30.029	1.00 2	5.26
ATOM	11286	N	SER X 19			-63.396	28.687	1.00 3	8.50
	11287	CA	SER X 19			-63.178	29.253	1.00 3	19.85
MOTA			SER X 19			-64.301	30.186	1.00 4	0.76
MOTA	11288	С	SER X 19			-64.085	31.355	1.00 4	
MOTA	11289	0	SER X 19			-63.121	28.154	1.00 3	
ATOM	11290	CB				-61.856	28.200	1.00 4	
ATOM	11291	OG	SER X 19			-65.513	29.668	1.00 4	
MOTA	11292	N	SER X 19				30.467	1.00 4	
MOTA	11293	CA	SER X 19			-66.684		1.00 4	
MOTA	11294	С	SER X 19			-66.695	31.831		
MOTA	11295	0	SER X 19			-67.484	32.706	1.00 4	
MOTA	11296	CB	SER X 19			-67.929	29.707	1.00 4	
MOTA	11297	OG	SER X 19	92		-68.473	30.286	1.00 4	
MOTA	11298	N	SER X 19			-65.817	32.013	1.00	
ATOM	11299	CA	SER X 19	93		-65.749	33.279	1.00	
ATOM	11300	С	SER X 19			-65.047	34.397	1.00	
ATOM	11301	0	SER X 1		22.537	-65.565	35.499	1.00	
ATOM	11302	СВ	SER X 1	93	24.741	-65.063	33.081	1.00	45.25
MOTA	11303	OG	SER X 1		24.638	-63.642	33.029	1.00	46.09
ATOM	11304	N	LEU X 1		22.066	-63.875	34.091	1.00	42.42
ATOM	11305	CA	LEU X 1		21.363	-63.046	35.058	1.00	44.45
ATOM	11305	C	LEU X 1			-63.811	36.182	1.00	47.29
	11307	Ö	LEU X 1			-63.270	37.272	1.00	
ATOM	11307	СВ	LEU X 1		20.331		34.340	1.00	
MOTA		CG	LEU X 1		20.954		33.286	1.00	
ATOM	11309	CD1				-61.398	31.997	1.00	
ATOM	11310	CD1				-59.850	33.800	1.00	
ATOM	11311		GLY X 1		20.342		35.919	1.00	
ATOM	11312	N				-65.881	36.930	1.00	
MOTA	11313	CA	GLY X 1			1 -66.528	37.939	1.00	
MOTA	11314	С	GLY X 1		20.509		39.140	1.00	
MOTA	11315	0	GLY X 1				37.448	1.00	
MOTA	11316	N	THR X 1			3 -67.347	38.315	1.00	
MOTA	11317	CA	THR X 1			-68.034		1.00	
MOTA	11318	С	THR X 1			1 -67.178	38.740		57.61
MOTA	11319	0	THR X 1			7 -67.514	39.701	1.00	
MOTA	11320	CB		.96		5 -69.233	37.632		55.91
MOTA	11321	OG1				9 -68.909	37.228		
MOTA	11322	CG2				3 -69.631	36.394		54.61
MOTA	11323	N	GLN X 1			6 -66.075	38.033		55.12
MOTA	11324	CA	GLN X 1	197	24.98	3 -65.183	38.340		56.63
MOTA	11325	С	GLN X 1	L9 7	24.62	5 -63.800	38.906		54.70
MOTA	11326	0	GLN X 1	197	23.66	2 -63.158	38.475		58.10
MOTA	11327	CB	GLN X 1	197		1 -64.987	37.076		61.66
MOTA	11328	CG	GLN X 1	L97	27.21	9 -65.633	37.111		62.58
ATOM	11329	CD	GLN X 1		28.15	5 -64.970	38.114		65.11
ATOM	11330		GLN X 1			3 -64.432	39.147		65.69
ATOM	11331		GLN X 1			8 -65.013	37.814		67.08
ATOM		N	THR X 1			2 -63.324	39.839		50.72
ATOM		CA	THR X			7 -62.011	40.438		48.29
ATOM		C	THR X			5 -61.088	39.981	1.00	45.98
ATOM		Õ	THR X		27.39	9 -61.561	39.579	1.00	51.20
MOTA		СВ	THR X		25.31	5 -62.067	41.923		47.98
MOTA		OG:			25.27	5 -60.735	42.441		45.58
MOTA			2 THR X 1			7 -62.707			52.34
AT ON	T T J J O	C G /	- 1111/ W -		20.01				

ATOM	11339	N	TYR X	199	26.136 -59.783	40.050	1.00	37.06
MOTA	11340	CA	TYR X	199	27.163 -58.857	39.626	1.00	29.42
ATOM	11341	С	TYR X		27.189 -57.637	40.509	1.00	32.08
ATOM	11342	0	TYR X		26.142 -57.112	40.863	1.00	
ATOM	11343	СВ	TYR X		26.888 -58.378	38.211	1.00	
					26.886 -59.444	37.167	1.00	
ATOM	11344	CG	TYR X				1.00	
ATOM	11345	CD1	TYR X		27.983 -60.258	36.976		
ATOM	11346	CD2	TYR X		25.773 -59.665	36.396	1.00	
MOTA	11347	CE1	TYR X		27.958 -61.281	36.044	1.00	
ATOM	11348	CE2	TYR X		25.742 -60.682	35.467	1.00	
ATOM	11349	CZ	TYR X	199	26.832 -61.490	35.301	1.00	
ATOM	11350	OH	TYR X	199	26.782 -62.545	34.428		19.43
ATOM	11351	N	ILE X	200	28.377 -57.163	40.851	1.00	31.65
ATOM	11352	CA	ILE X	200	28.497 -55.962	41.667	1.00	29.64
ATOM	11353	С	ILE X	200	29.611 -55.104	41.117	1.00	27.35
ATOM	11354	Ō	ILE X		30.679 -55.603	40.765	1.00	26.68
ATOM	11355	СВ	ILE X		28.852 -56.261	43.140		32.00
	11356	CG1	ILE X		28.589 -57.729	43.480		35.15
ATOM	11357	CG2	ILE X		28.106 -55.320	44.037		32.24
MOTA						43.817		39.67
ATOM	11358	CD1	ILE X		27.163 -58.056			
MOTA	11359	N	CYS X		29.368 -53.807	41.054		22.53
ATOM	11360	CA	CYS X		30.370 -52.910	40.568		17.71
MOTA	11361	С	CYS X		30.975 -52.271	41.789		19.53
MOTA	11362	0	CYS X	201	30.291 -52.094	42.771		18.85
ATOM	11363	CB	CYS X	201	29.729 -51.926	39.641		11.72
ATOM	11364	SG	CYS X	201	28.696 -50.625	40.354	1.00	17.46
ATOM	11365	N	ASN X	202	32.264 -51.950	41.749	1.00	23.35
ATOM	11366	CA	ASN X	202	32.938 -51.403	42.916	1.00	24.11
ATOM	11367	С	ASN X	202	33.522 -50.044	42.641	1.00	26.66
ATOM	11368	0	ASN X	202	34.664 -49.951	42.229	1.00	32.62
ATOM	11369	СВ	ASN X		34.041 -52.363	43.342	1.00	22.89
ATOM	11370	CG	ASN X		33.714 -53.824	43.003	1.00	29.84
ATOM	11371	OD1			34.373 -54.466	42.173	1.00	31.26
ATOM	11372	ND2	ASN X		32.688 -54.354	43.650		31.64
ATOM	11373	N	VAL X		32.745 -48.989	42.850		26.69
ATOM	11373	CA	VAL X		33.246 -47.651	42.612		26.66
ATOM	11375	С	VAL X		34.105 -47.220	43.762		29.44
			VAL X		33.715 -47.375	44.893		26.54
ATOM	11376	0			32.122 -46.619	42.471		25.60
ATOM	11377	CB	VAL X					23.62
MOTA	11378	CG1	VAL X		32.543 -45.322	43.126		
MOTA	11379	CG2	VAL X		31.841 -46.341	40.999		25.20
MOTA	11380	N	ASN X		35.276 -46.673	43.480		37.15
MOTA	11381	CA	ASN X		36.144 -46.210	44.546		43.77
MOTA	11382	С	ASN X		36.663 -44.828	44.196		43.47
ATOM	11383	0	ASN X		37.359 -44.657	43.198		46.58
ATOM	11384	CB	ASN X		37.308 -47.174	44.750		51.86
MOTA	11385	CG	ASN X	204	38.480 -46.513	45.448	1.00	61.90
ATOM	11386	OD1	ASN X	204	39.468 -46.118	44.810	1.00	69.46
ATOM	11387	ND2	ASN X	204	38.371 -46.369	46.765	1.00	62.47
ATOM	11388	N	HIS X	205	36.290 -43.840	45.004	1.00	43.31
MOTA	11389	CA	HIS X		36.715 -42.457	44.802	1.00	42.06
ATOM	11390	С	HIS X		37.663 -41.974	45.892	1.00	42.61
ATOM	11391	Ö	HIS X		37.306 -41.124	46.692		37.16
ATOM	11392	СВ	HIS X		35.511 -41.533	44.751		39.01
ATOM	11393	CG	HIS X		35.835 -40.139	44.327		42.81
ATOM	11394		HIS X		36.916 -39.841	43.530		49.90
ATOM	11394		HIS X		35.218 -38.960	44.573		46.84
					36.949 -38.535	43.302		49.78
ATOM	11396		HIS X					42.03
ATOM	11397		HIS X		35.928 -37.981	43.927		
MOTA	11398	N	LYS X	200	38.890 -42.487	45.869	1.00	45.40

								7 00 44 60
MOTA	11399	CA	LYS X	206		-42.146	46.853	1.00 44.69
ATOM	11400	С	LYS X			-40.658	47.212	1.00 44.78
MOTA	11401	0	LYS X	206		-40.312	48.384	1.00 38.85
ATOM	11402	CB	LYS X			-42.580	46.337	1.00 51.36
MOTA	11403	CG	LYS X	206		-44.070	46.055	1.00 57.46
MOTA	11404	CD	LYS X	206		-44.549	46.296	1.00 63.72
MOTA	11405	CE	LYS X	206		-45.988	45.817	1.00 67.39
ATOM	11406	NZ	LYS X	206		-46.194	44.367	1.00 73.59
MOTA	11407	N	PRO X	207		-39.755	46.208	1.00 48.28
ATOM	11408	CA	PRO X			-38.311	46.500	1.00 51.13
ATOM	11409	С	PRO X	207	38.904	-37.840	47.490	1.00 51.77
ATOM	11410	0	PRO X	207	38.754	-36.649	47.748	1.00 51.10
ATOM	11411	СВ	PRO X		39.798	-37.659	45.128	1.00 50.72
ATOM	11412	CG	PRO X		40.418	-38.649	44.185	1.00 53.24
ATOM	11413	CD	PRO X		40.028	-40.009	44.754	1.00 51.54
ATOM	11414	N	SER X		38.155	-38.786	48.026	1.00 53.29
ATOM	11415	CA	SER X			-38.467	48.986	1.00 56.05
ATOM	11416	,C	SER X			-39.664	49.891	1.00 59.12
ATOM	11417	Õ	SER X			-39.756	50.621	1.00 57.89
ATOM	11418	CB	SER X			-38.141	48.265	1.00 55.50
ATOM	11419	OG	SER X			-39.166	47.362	1.00 53.76
MOTA	11420	И	ASN X			-40.616	49.803	1.00 62.43
ATOM	11421	CA	ASN X			-41.802	50.629	1.00 62.58
ATOM	11421	C	ASN X			-42.637	50.223	1.00 59.07
	11423	0	ASN X			-43.768	50.660	1.00 62.32
MOTA	11423	СВ	ASN X			-41.408	52.105	1.00 66.37
MOTA MOTA	11424	CG	ASN X			-42.446	52.950	1.00 73.45
-	11425		ASN X			-43.589	53.070	1.00 75.63
MOTA	11427		ASN X			-42.049	53.541	1.00 80.07
MOTA			THR X			-42.097	49.329	1.00 55.72
MOTA	11428	N CA	THR X			-42.767	48.845	1.00 54.21
MOTA	11429	C	THR X			-44.161	48.254	1.00 52.13
ATOM	11430 11431	0	THR X			-44.428	47.625	1.00 52.27
MOTA	11431	CB	THR X			-41.919	47.763	1.00 56.65
ATOM	11432	OG1				-40.753	48.359	1.00 52.68
MOTA	11433	CG2				-42.734	47.064	1.00 52.96
ATOM	11434	N CG2	LYS X			-45.034	48.462	1.00 49.78
ATOM	11435	CA	LYS X			-46.408	47.980	1.00 51.63
ATOM		C	LYS X			-46.993	48.091	1.00 47.02
MOTA	11437 11438	0	LYS X			-46.932	49.141	1.00 45.32
MOTA	11439	CB	LYS X			-47.248	48.802	1.00 57.83
MOTA	11439	CG	LYS X			-48.658	49.104	1.00 65.12
MOTA	11441	CD	LYS X			-49.708	48.129	1.00 71.59
ATOM	11441	CE	LYS X			-51.113		1.00 76.02
MOTA	11442	NZ	LYS X			-52.205	47.738	1.00 81.29
MOTA			VAL X			-47.566	46.999	1.00 44.06
ATOM	11444	N CA	VAL X			-48.135	46.929	1.00 37.70
MOTA	11445	C	VAL X			-49.442	46.152	1.00 37.54
ATOM	11446		VAL X			-49.651	45.252	1.00 39.46
ATOM	11447	O	VAL X			-47.165	46.204	1.00 32.28
MOTA	11448	CB				-47.774	46.009	1.00 30.43
MOTA	11449		L VAL X			-45.900	46.979	1.00 33.83
ATOM	11450		VAL X			5 -50.327	46.497	1.00 37.62
MOTA	11451	N	ASP X			-51.606	45.816	1.00 36.99
ATOM	11452	CA	ASP X			-51.839	45.406	1.00 32.24
MOTA	11453	С	ASP X		27 201	2 -52.461	46.144	1.00 32.24
ATOM	11454	0	ASP X			-52.461 -52.720	46.748	1.00 32.01
ATOM	11455	CB	ASP X		21 404	5 -52.636	47.074	1.00 43.13
MOTA	11456	CG	ASP >		31.40	5 -52.636	46.156	1.00 50.95
ATOM	11457		l ASP X				48.249	1.00 30.53
MOTA	11458	OD	2 ASP >	1 213	21.82	5 -52.836	70.279	1.00 31.00

ATOM	11459	N	LYS X 2	214	27.728 -51.35	9 44.223	1.00 29.45
ATOM	11460	CA	LYS X 2		26.374 -51.46		1.00 24.21
ATOM	11461	C	LYS X 2		26.159 -52.85		1.00 27.81
ATOM	11462	Ö	LYS X 2		26.859 -53.25		1.00 31.55
			LYS X 2		26.162 -50.42		0.00 26.90
ATOM	11463	CB			24.784 -49.79		0.00 25.11
MOTA	11464	CG	LYS X 2				0.00 23.11
ATOM	11465	CD	LYS X 2		23.777 -50.65		
ATOM	11466	CE	LYS X 2		22.697 -51.17		0.00 22.95
ATOM	11467	NZ	LYS X 2	214	21.928 -50.06		0.00 21.90
ATOM	11468	N	LYS X 2		25.208 -53.59		1.00 30.93
ATOM	11469	CA	LYS X 2	215	24.884 -54.93	1 43.184	1.00 27.12
ATOM	11470	С	LYS X 2	215	23.915 -54.64	7 42.044	1.00 28.52
ATOM	11471	0	LYS X 2		22.790 -54.21	1 42.275	1.00 29.76
ATOM	11472	СВ	LYS X 2		24.196 -55.74	8 44.278	0.00 26.01
ATOM	11473	CG	LYS X 2		23.676 -57.09		0.00 22.62
· ATOM	11474	CD	LYS X 2		23.518 -58.05		0.00 19.97
MOTA	11475	CE	LYS X 2		22.121 -57.97		0.00 18.12
			LYS X 2		22.038 -58.66		0.00 16.43
ATOM	11476	NZ					1.00 27.66
ATOM	11477	N	VAL X 2		24.359 -54.81		1.00 27.00
ATOM	11478	CA	VAL X 2		23.464 -54.54		
MOTA	11479	С	VAL X 2		22.562 -55.74		1.00 34.08
MOTA	11480	0	VAL X 2		23.016 -56.87		1.00 35.42
MOTA	11481	CB	VAL X 2		24.212 -54.34		1.00 24.48
MOTA	11482	CG1	VAL X 2	216	23.281 -53.74		1.00 24.51
MOTA	11483	CG2	VAL X 2	216	25.341 -53.39	38.608	1.00 26.66
MOTA	11484	N	GLU X 2	2 17	21.263 -55.51	39.645	1.00 37.86
ATOM	11485	CA	GLU X 2	217	20.321 -56.60	4 39.523	1.00 37.77
MOTA	11486	С	GLU X 2	217	19.380 -56.21	7 38.406	1.00 36.52
ATOM	11487	0	GLU X 2	217	19.134 -55.00	38.169	1.00 35.93
ATOM	11488	СВ	GLU X 2		19.545 -56.79		1.00 42.75
ATOM	11489	CG	GLU X 2		20.439 -56.88		1.00 48.84
ATOM	11490	CD	GLU X 2		19.677 -57.02		1.00 52.96
ATOM	11491	OE1	GLU X		19.553 -56.00		1.00 54.70
ATOM	11492	OE2	GLU X		19.215 -58.15		1.00 57.05
ATOM	11493	N N	PRO X		18.851 -57.23		1.00 30.72
		CA	PRO X		17.930 -57.04		1.00 31.25
MOTA	11494	CA	PRO X		16.588 -56.54		1.00 33.19
ATOM	11495				15.661 -57.31		1.00 36.33
ATOM	11496	0	PRO X				1.00 36.33
MOTA	11497	CB	PRO X		17.830 -58.42		1.00 24.05
MOTA	11498	CG	PRO X		18.119 -59.31		
ATOM	11499	CD	PRO X		19.135 -58.66		1.00 26.89
MOTA	11500	N	LYS X		16.484 -55.25		1.00 37.89
ATOM	11501	CA	LYS X		15.203 -54.66		1.00 39.02
MOTA	11502	С			14.505 -54.54		
MOTA	11503	0	LYS X		14.147 -55.62		1.00 45.98
MOTA	11504	CB	LYS X		15.397 -53.28		0.00 35.98
MOTA	11505	CG	LYS X		15.046 -53.23		0.00 31.17
MOTA	11506	CD	LYS X	219	14.239 -51.97		0.00 27.26
MOTA	11507	CE	LYS X	219	15.128 -50.85	66 40.571	0.00 24.68
ATOM	11508	NZ	LYS X	219	15.625 -49.97	75 39.478	0.00 22.55
ATOM	11509	OT	LYS X		14.357 -53.38	35.753	1.00 49.00
ATOM	11510	N	ASP Y	1	51.487 -16.52		1.00 21.38
MOTA	11511	CA	ASP Y	ī	51.997 -17.86		1.00 18.08
ATOM	11512	C	ASP Y	ì	51.837 -18.79		
ATOM	11512	0	ASP Y	ì	50.915 -18.63		1.00 23.46
ATOM	11514	СВ	ASP Y	1	51.203 -18.39		
		CG	ASP Y	1	51.517 -17.65		1.00 22.83
ATOM	11515				52.172 -16.50		
ATOM	11516		ASP Y	1			
ATOM	11517		ASP Y	1	51.103 -18.10		
ATOM	11518	N	ILE Y	2	52.743 -19.7	44 12.3/3	1.00 10.42

ATOM	11519	CA	ILE Y	2		52.656	-20.686	11.464	1.00	13.68
			ILE Y			51.644		11.857	1.00	11.18
ATOM	11520	С	ILE Y			51.600		13.018	1.00	14.24
MOTA	11521	0				54.002		11.250		15.42
MOTA	11522	СВ	ILE Y					11.282	1.00	7.60
MOTA	11523	CG1				55.163				15.42
ATOM	11524	CG2	ILE Y				-22.305	9.979		
ATOM	11525	CD1	ILE Y	. 2			-20.745	10.384	1.00	2.00
ATOM	11526	N	VAL Y	7 3			-22.226	10.907	1.00	6.40
ATOM	11527	CA	VAL Y	3		49.881	-23.245	11.219	1.00	7.90
ATOM	11528	C	VAL Y			50.137	-24.568	10.502		10.87
	11529	0	VAL Y				-24.635	9.279	1.00	18.98
MOTA		СВ	VAL 1				-22.779	10.884	1.00	2.00
ATOM	11530						-23.718	11.439	1.00	2.00
MOTA	11531		VAL Y				-21.463	11.501	1.00	5.73
MOTA	11532		VAL)							11.35
ATOM	11533	N	LEU ?				-25.643	11.256		12.12
MOTA	11534	CA	LEU ?				-26.932	10.615		
MOTA	11535	С	LEU :	r = 4			-27.760	10.535	1.00	8.63
MOTA	11536	0	LEU Y	Y 4			-27.901	11.506		15.50
MOTA	11537	CB	LEU :	Y 4		51.620	-27.708	11.381	1.00	10.66
MOTA	11538	CĠ	LEU :			52.869	-26.895	11.614	1.00	6.96
ATOM	11539	CD1					-27.759	12.384	1.00	2.21
		CD2		_			-26.382	10.247	1.00	6.08
MOTA	11540		THR :				-28.335	9.389	1.00	6.14
ATOM	11541	N					-29.119	9.247	1.00	3.35
ATOM	11542	CA	THR '					8.912	1.00	3.46
MOTA	11543	С	THR				-30.526			5.07
ATOM	11544	Ο.	THR '				-30.751	7.869	1.00	
MOTA	11545	CB	THR '				-28.595	8.086	1.00	2.00
ATOM	11546	OG1	THR	Y 5			-27.348	8.433	1.00	2.00
ATOM	11547	CG2	THR	Y 5			-29.585	7.710	1.00	2.00
ATOM	11548	N	GLN	Y 6			-31.487	9.758	1.00	3.22
ATOM	11549	CA	GLN	Y 6		48.320	-32.848	9.447	1.00	4.78
ATOM	11550	С		Y 6		47.238	-33.528	8.633	1.00	2.00
ATOM	11551	ō		Y 6			-32.921	8.256	1.00	2.00
ATOM	11552	СВ		Ý 6			-33.651	10.726	1.00	2.00
	11552	CG		Ý 6			-32.928	11.704	1.00	2.00
ATOM				Y 6			-33.849	12.779	1.00	2.00
ATOM	11554	CD					-33.422	13.817	1.00	2.00
ATOM	11555	OE]		Y 6			-35.146	12.548	1.00	2.00
ATOM	11556	NE2	-	Y 6					1.00	2.92
ATOM	11557	N	SER				-34.781	8.302		2.00
ATOM	11558	CA	SER				-35.487	7.533	1.00	
MOTA	11559	С	SER				-36.832	7.166	1.00	5.75
MOTA	11560	0	SER				-36.921	6.896	1.00	7.90
MOTA	11561	CB	SER	Y 7			-34.743	6.275	1.00	2.00
ATOM	11562	OG	SER	Y 7			-35.743	5.315	1.00	
ATOM	11563	N	PRO			46.242	-37.907	7.203	1.00	8.26
ATOM		CA	PRO			44.835	-37.890	7.571	1.00	4.07
ATOM		C	PRO				-37.627	9.065	1.00	6.87
		Ö	PRO				-37.699	9.676	1.00	6.95
ATOM							-39.314	7.272	1.00	5.76
MOTA		CB	PRO				-40.096	7.625	1.00	2.00
ATOM		CG	PRO				-39.297	6.981	1.00	7.52
MOTA		CD	PRO							7.32
MOTA		N	ALA				-37.336	9.652	1.00	
MOTA		CA					-37.111	11.093	1.00	4.54
ATOM	11572	С	ALA)		-38.506	11.705	1.00	
ATOM	11573	0	ALA	Y S)	44.269	-38.729	12.780	1.00	
ATOM		СB	ALA	Y 9)	42.336	-36.477	11.439	1.00	
ATOM		N	THR	Y 10)	43.094	-39.469	11.020	1.00	
ATOM						43.194	-40.823	11.525	1.00	2.82
ATOM			THR				-41.675	10.419	1.00	7.34
ATOM			THR				-41.655			11.97
VI OIN	11310	0	T 111/		-	30.170		_	_	

ATOM	11579	СВ	THR Y	: 10)	41.875	-41.462	11.799	1.00	2.34
ATOM	11580		THR Y)	41.160	-40.710	12.781	1.00	2.27
ATOM	11581	CG2	THR Y				-42.947	12.230	1.00	2.89
	11582	N	LEU Y				-42.469	10.705	1.00	2.00
MOTA							-43.339	9.691	1.00	2.00
MOTA	11583	CA	LEU Y							2.00
MOTA	11584	С	LEU Y				-44.660	10.352	1.00	
MOTA	11585	0	LEU Y				-44.859	11.422	1.00	2.00
MOTA	11586	CB	TEA A	13	l		-42.998	9.401	1.00	3.46
ATOM	11587	CG	LEU Y	' 1]	l		-43.648	8.296	1.00	2.00
MOTA	11588	CD1	LEU Y	11	1	47.609	-45.153	8.419	1.00	3.97
ATOM	11589	CD2	LEU Y	11	1	47.018	-43.284	7.004	1.00	2.00
ATOM	11590	N	SER Y				-45.532	9.732	1.00	3.85
ATOM	11591	CA	SER Y				-46.872	10.255	1.00	5.01
	11592	C	SER Y				-47.825	9.371	1.00	3.89
ATOM							-47.985	8.206	1.00	5.45
ATOM	11593	0	SER Y							13.55
MOTA	11594	CB	SER Y				-47.180	10.224		
MOTA	11595	OG	SER Y				-46.123	10.767		19.89
ATOM	11596	N	VAL Y				-48.469	9.963	1.00	3.75
ATOM	11597	CA	VAL Y	r = 13	3	46.757	-49.353	9.279	1.00	2.00
ATOM	11598	С	VAL Y	7 13	3	46.847	-50.577	10.133	1.00	3.70
MOTA	11599	0	VAL Y	7 13	3	46.562	-50.533	11.327	1.00	2.24
ATOM	11600	CB	VAL Y	7 13	3	48.133	-48.664	9.234	1.00	2.00
ATOM	11601		VAL Y				-48.969	10.477	1.00	6.53
ATOM	11602		VAL :				-49.082	8.047	1.00	8.37
ATOM	11603	N	SER Y				-51.667	9.554	1.00	8.44
			SER Y				-52.894	10.324		12.05
MOTA	11604	CA					-53.075	10.524		13.71
ATOM	11605	С	SER :							14.53
ATOM	11606	0	SER :				-52.432	9.957		
ATOM	11607	CB	SER :				-54.076	9.513		11.89
ATOM	11608	OG	SER Y				-53.963	8.170		20.94
ATOM	11609	N	PRO :	Y 1	5		-53.921	11.561		12.21
MOTA	11610	CA	PRO 1	Y 1	5	50.657	-54.127	11.824	1.00	10.98
ATOM	11611	С	PRO 1	Y 1	5	51.097	-54.755	10.517	1.00	15.08
ATOM	11612	0	PRO :	Y 1:	5	50.287	-55.431	9.860	1.00	18.30
ATOM	11613	CB	PRO 1	Y 1	5	50.658	-55.144	12.937	1.00	8.01
ATOM	11614	CG	PRO '		5	49.371	-55.018	13.550	1.00	7.29
ATOM	11615	CD	PRO '				-54.729	12.458	1.00	10.23
ATOM	11616	N	GLY '				-54.561	10.125		13.68
ATOM	11617	CA	GLY Y				-55.115	8.849		14.48
	11618	C	GLY .				-54.170	7.718		14.16
ATOM								6.563		20.29
ATOM	11619	0	GLY Y				~54.353			
MOTA	11620	N	GLU				-53.165	8.012		11.91
MOTA	11621	CA	GLU				-52.224	6.964	1.00	
MOTA	11622	С	GLU				-51.012	7.080		19.83
ATOM	11623	0	GLU				-50.672	8.173		16.85
ATOM	11624	CB	GLU	Y 1	7		-51.803	7.118		20.81
MOTA	11625	CG	GLU	Y 1	7		-51.315	5.825		28.92
MOTA	11626	CD	GLU	Y 1	7	47.524	-50.966	5.961	1.00	36.14
ATOM	11627	OE1	GLU	Y 1	7	46.930	-51.139	7.064	1.00	32.14
ATOM	11628	OE2				46.941	-50.507	4.936	1.00	33.72
ATOM	11629	·N	ARG				-50.393	5.947	1.00	20.85
ATOM	11630	CA	ARG				-49.227	5.987		18.39
ATOM	11631	C	ARG				-48.044	6.077		18.32
	11631	0	ARG				-47.990	5.435		18.68
MOTA							-47.330 -49.138	4.739		21.84
MOTA	11633	CB	ARG							
ATOM	11634	CG	ARG		.8		-47.718	4.292		24.95
MOTA	11635	CD	ARG				-47.715	2.812		28.54
MOTA	11636	NE	ARG				-46.966	2.568		37.97
MOTA	11637	CZ	ARG				-46.407	1.396		44.47
MOTA	11638	NHl	ARG	Y 1	.8	55.521	-46.543	0.397	1.00	45.52

					F7 F10	-45.710	1.222	1.00 40.41
MOTA	11639	NH2	ARG Y	18				1.00 14.28
MOTA	11640	N	ALA Y	19		-47.096	6.890	1.00 14.20
MOTA	11641	CA	ALA Y	19		-45.924	7.120	
ATOM	11642	С	ALA Y	19		-44.640	6.985	1.00 15.91
MOTA	11643	0	ALA Y	19		-44.522	7.520	1.00 19.09
ATOM	11644	СВ	ALA Y	19	51.393	-46.016	8.501	1.00 11.17
	11645	N	THR Y	20	52.198	-43.651	6.308	1.00 13.14
MOTA			THR Y	20		-42.385	6.156	1.00 10.05
MOTA	11646	CA		20		-41.214	6.365	1.00 13.03
MOTA	11647	С	THR Y			-41.079	5.694	1.00 13.76
MOTA	11648	0	THR Y	20		-42.366	4.788	1.00 4.75
MOTA	11649	CB	THR Y	20				1.00 11.72
MOTA	11650	OG1	THR Y	20		-41.403	3.955	
MOTA	11651	CG2	THR Y	20		-43.732	4.113	1.00 2.00
MOTA	11652	N	ILE Y	21		-40.397	7.354	1.00 12.60
MOTA	11653	CA	ILE Y	21		-39.238	7.701	1.00 11.56
ATOM	11654	С	ILE Y	21	51.993	-38.039	6.985	1.00 14.11
	11655	Ö	ILE Y		53.128	-38.066	6.576	1.00 22.92
ATOM		СВ	ILE Y			-38.924	9.148	1.00 10.72
MOTA	11656					-40.075	9.981	1.00 9.78
MOTA	11657	CG1				-37.574	9.471	1.00 16.98
MOTA	11658	CG2				-40.111	11.280	1.00 15.38
MOTA	11659	CD1						1.00 8.69
MOTA	11660	N	SER Y			-36.942	6.916	1.00 8.50
MOTA	11661	CA	SER Y			-35.828	6.237	
MOTA	11662	С	SER Y	22		-34.574	7.042	1.00 13.49
MOTA	11663	0	SER Y	22		-34.513	7.672	1.00 18.50
ATOM	11664	СВ	SER Y		51.196	5 -35.778	4.888	1.00 7.70
ATOM	11665	OG	SER Y		50.052	2 -34.949	4.973	1.00 8.66
	11666	N	CYS Y		52.438	3 -33.575	7.023	1.00 10.50
MOTA		CA	CYS)			-32.363	7.789	1.00 5.01
MOTA	11667				52.23		6.874	1.00 9.15
MOTA	11668	С			52.61		5.733	1.00 8.89
MOTA	11669	0	CYS 3			1 -32.177	8.865	1.00 6.61
ATOM	11670	CB	CYS ?				9.815	1.00 3.41
ATOM	11671	SG	CYS Y		52.98		7.359	1.00 15.44
MOTA	11672	N	ARG :			7 -30.047		1.00 13.44
MOTA	11673	CA	ARG :			2 -28.895	6.466	
ATOM	11674	С	ARG :	Y 24	51.83		7.011	1.00 21.43
ATOM	11675	0	ARG :	Y 24	50.96		7.775	1.00 24.64
ATOM	11676	CB	ARG '	Y 24		3 -28.997	5.794	1.00 14.94
ATOM	11677	CG	ARG '		50.55	2 -29.200	4.390	1.00 12.51
ATOM	11678	CD	ARG		49.57	9 -28.234	3.789	1.00 19.96
	11679	NE	ARG			7 -27.942	2.559	1.00 15.90
ATOM		CZ		Y 24		0 -28.635	1.467	1.00 17.90
MOTA	11680		1 ARG			0 -29.682	1.465	1.00 2.00
ATOM	11681			_		7 -28.304	0.415	1.00 21.55
MOTA	11682	NH				0 -26.783	6.527	1.00 16.77
ATOM		N	ALA		52.05	0 -20.703	7.030	1.00 12.16
MOTA	11684	CA			53.12	9 -25.470		1.00 6.59
ATOM	11685	С	ALA		52.40	7 -24.391	6.291	
ATOM	11686	0	ALA	Y 25	52.29	8 -24.413	5.074	1.00 2.00
MOTA		CB	ALA	Y 25	54.64	9 -25.233	7.029	1.00 17.39
ATOM		N	SER		51.88	5 -23.451	7.059	1.00 3.10
ATOM					51.16	6 -22.372	6.461	1.00 7.41
ATOM			SER		52.13	1 -21.559	5.659	1.00 12.21
			SER		51.72	6 -20.607	4.994	1.00 18.59
MOTA					5n 40	0 -21.486	7.526	
MOTA					50.43	21.400	8.765	
MOTA					21.10	4 -21.903	5.778	
MOTA			GLN		55.41	14 -71 013	5.072	
MOTA					54.48	9 -21.213		
ATOM			GLN		55.69	8 -22.145	5.058	
ATOM	11697	0	GLN		55.74	18 -23.103	5.839	
ATOM	11698	CE	GLN	Y 27	54.83	17 -19.907	5.789	1.00 10.76

								1 00 00 05
MOTA	11699	CG	GLN Y	27	55.435		7.138	1.00 20.05
ATOM	11700	CD	GLN Y	27	55.897	-18.807	7.746	1.00 27.79
ATOM	11701	OE1		27	55.095	-18.050	8.296	1.00 35.00
	11702	NE2		27	57.193		7.650	1.00 29.08
ATOM			ARG Y	28	56.646		4.155	1.00 14.63
MOTA	11703	N			57.860		4.053	1.00 12.08
ATOM	11704	CA	ARG Y	28			5.380	1.00 12.00
ATOM	11705	С	ARG Y	28	58.599			
ATOM	11706	0	ARG Y	28	58.597		6.033	1.00 14.08
ATOM	11707	CB	ARG Y	28		-22.132	2.983	1.00 18.06
ATOM	11708	CG	ARG Y	28		-22.527	1.543	1.00 28.55
ATOM	11709	CD	ARG Y	28	59.550	-21.933	0.580	1.00 37.24
ATOM	11710	NE	ARG Y	28	59.249	-22.235	-0.824	1.00 49.02
ATOM	11711	CZ	ARG Y	28	59.753	-23.265	-1.520	1.00 49.20
	11712		ARG Y	28		-24.131	-0.957	1.00 45.41
ATOM			ARG Y	28		-23.442	-2.790	1.00 45.18
ATOM	11713			29		-23.680	5.785	1.00 4.85
ATOM	11714	N	VAL Y				7.035	1.00 7.37
ATOM	11715	CA	VAL Y	29		-23.652		1.00 13.50
MOTA	11716	С	VAL Y	29		-24.447	6.819	
MOTA	11717	0	VAL Y	29		-24.916	7.772	1.00 15.34
MOTA	11718	CB	VAL Y	29		-24.285	8.190	1.00 4.98
MOTA	11719	CG1	VAL Y	29	58.013	-23.396	8.557	1.00 3.33
ATOM	11720	CG2	VAL Y	29	58.718	-25.718	7.814	1.00 2.00
ATOM	11721	N	SER Y	30	61.603	-24.593	5.548	1.00 13.94
ATOM	11722	CA	SER Y	30		-25.319	5.209	1.00 13.53
	11723	C	SER Y	30		-24.300	4.454	1.00 11.29
ATOM			SER Y	30		-23.716	3.509	1.00 14.68
ATOM	11724	0		30		-26.487	4.305	1.00 10.79
MOTA	11725	CB	SER Y			-26.370	3.099	1.00 18.73
ATOM	11726	OG	SER Y	30			4.871	1.00 7.43
ATOM	11727	И	SER Y	31		-24.031		
MOTA	11728	CA	SER Y	31		-23.061	4.105	
ATOM	11729	С	SER Y	31		-23.787	3.255	1.00 17.72
MOTA	11730	0	SER Y	31		-24.891	2.740	1.00 20.30
MOTA	11731	CB	SER Y	31	66.308	-21.976	4.982	1.00 2.00
MOTA	11732	OG	SER Y	31	67.308	-22.544	5.781	1.00 13.69
ATOM	11733	N	SER Y	32	67.933	-23.201	3.105	1.00 21.16
ATOM	11734	CA	SER Y	32	68.943	-23.810	2.234	1.00 15.27
MOTA	11735	С	SER Y	32	69.657	-25.033	2.708	1.00 15.07
MOTA	11736	Ö	SER Y	32	70.294	-25.699	1.900	1.00 17.27
ATOM	11737	СВ	SER Y			-22.785	1.777	1.00 9.40
	11738	OG	SER Y			-22.412	2.850	1.00 2.00
MOTA			THR Y	33	69.574	-25.370	3.983	1.00 15.86
ATOM	11739	N				-26.582	4.392	1.00 23.12
ATOM	11740	CA	THR Y				5.243	1.00 28.38
ATOM	11741	С	THR Y			-27.518	5.232	1.00 27.24
ATOM	11742	0	THR Y			-28.748		1.00 27.24
MOTA	11743	CB	THR Y			-26.288	5.188	1.00 22.40
MOTA	11744	OG1	L THR Y			-24.954	4.927	1.00 27.87
MOTA	11745	CG2	THR Y	33		-27.339	4.866	1.00 23.48
ATOM	11746	N	TYR Y	34	68.556	<u>-</u> 26.914	6.019	1.00 30.06
MOTA	-11747	CA	TYR Y	34	67.690	-27.681	6.880	1.00 25.40
ATOM	11748	С	TYR Y	34	66.213	-27.268	6.710	1.00 24.06
ATOM	11749	0	TYR Y		65.867	-26.181	6.172	1.00 14.63
ATOM	11750	CB	TYR Y			-27.511	8.334	1.00 28.29
ATOM	11751	CG	TYR Y			-27.877	8.595	1.00 32.35
						-27.431	7.752	1.00 39.16
ATOM		CD:				-28.603	9.721	1.00 34.83
ATOM		CD					8.005	1.00 43.18
ATOM		CE:				-27.685		1.00 40.32
MOTA		CE				-28.864	9.998	
MOTA		CZ	TYR Y			-28.400	9.128	1.00 45.76
MOTA		ОН	TYR Y			-28.666	9.346	1.00 51.08
ATOM	11758	N	SER Y	35	65.354	-28.183	7.162	1.00 22.65

			!!	2.5	63.915 -2	7 997	7.156	1.00 19.37
MOTA	11759	CA	SER Y	35	63.655 -2		8.649	1.00 17.47
MOTA	11760	C	SER Y	35	63.655 -2	0.030	9.281	1.00 18.24
MOTA	11761	0	SER Y	35	63.976 -2			1.00 22.46
ATOM	11762	CB	SER Y	35	63.244 -2		6.461	
ATOM	11763	OG	SER Y	35	63.710 -2	9.288	5.125	1.00 27.18
ATOM	11764	N	TYR Y	36	63.121 -2		9.230	1.00 13.79
	11765	CA	TYR Y	36	62.880 -2	7.001	10.682	1.00 16.59
MOTA			TYR Y	36	61.578 -2		11.159	1.00 14.82
MOTA	11766	С		36	60.778 -2	7.083	11.853	1.00 17.67
MOTA	11767	0	TYR Y		63.018 -2	5 579	11.227	1.00 12.74
MOTA	11768	CB	TYR Y	36	64.443 -2		11.109	1.00 9.09
MOTA	11769	CG	TYR Y	36			12.223	1.00 10.42
MOTA	11770	CD1	TYR Y	36	65.260 -2			1.00 8.61
MOTA	11771	CD2	TYR Y	36	65.006 -2		9.865	1.00 13.95
ATOM	11772	CE1	TYR Y	36	66.600 -2		12.118	
ATOM	11773	CE2	TYR Y	36	66.371 -2	24.568	9.740	1.00 2.39
ATOM	11774	CZ	TYR Y	36	67.151 -2	24.553	10.881	1.00 8.05
	11775	OH	TYR Y	36	68.475 -2	24.234	10.855	1.00 9.80
ATOM	11776		MET Y	37	61.430 -2	28.953	10.811	1.00 12.13
MOTA		N		37	60.268 -	29.768	11.119	1.00 9.33
MOTA	11777	CA	MET Y		60.685 -		11.936	1.00 9.30
ATOM	11778	С	MET Y	37			11.663	1.00 10.83
MOTA	11779	0	MET Y	37	61.718 -	31.479		1.00 10.55
MOTA	11780	CB	MET Y	37	59.695 -	30.324	9.841	
ATOM	11781	CG	MET Y	37	58.403 -	29.627	9.429	
MOTA	11782	SD	MET Y	37	57.009 -	29.507	10.664	1.00 15.93
MOTA	11783	CE	MET Y	37	55.885 -	28.664	9.589	1.00 6.68
ATOM	11784	N	HIS Y	38	59.878 -	31.337	12.921	1.00 13.16
	11785	CA	HIS Y	38	60.164 -		13.785	1.00 9.02
MOTA			HIS Y	38	58.902 -		14.055	1.00 6.41
ATOM	11786	С		38	57.822 -	32.706	14.038	1.00 6.74
MOTA	11787	0	HIS Y		60.772 -		15.092	1.00 2.00
MOTA	11788	CB	HIS Y	38			14.939	1.00 4.48
ATOM	11789	CG	HIS Y	38	61.632 -	30.090		1.00 7.39
ATOM	11790		HIS Y	38	62.949 -		14.567	1.00 7.33
ATOM	11791	CD2	HIS Y	38	61.333 -		15.002	
ATOM	11792	CE1	HIS Y	38	63.435 -		14.417	
ATOM	11793	NE2	HIS Y	38	62.468 -		14.679	1.00 11.14
ATOM	11794	N	TRP Y	39	59.034 -		14.267	1.00 3.22
ATOM	11795	CA	TRP Y		57.870 -	-35.374	14.532	1.00 8.64
ATOM	11796	C	TRP Y	39	57.906 -	-36.083	15.868	1.00 9.04
	11797	Ö	TRP Y		58.948 -		16.315	1.00 13.14
ATOM		CB	TRP Y		57.711 -		13.459	1.00 12.63
ATOM					57.514 -		12.098	1.00 7.92
MOTA		CG	TRP Y		58.474 -		11.197	1.00 7.17
MOTA					56.285 -		11.408	1.00 7.49
ATOM							9.961	1.00 6.44
ATOM	11802				57.930 -	-33.304		
MOTA	11803	CE:	2 TRP Y		56.580 -	-35.496	10.061	
MOTA	11804	CE	3 TRP Y	39	54.958		11.792	
ATOM		CZ	2 TRP Y	39	55 . 596 -	-35.353	9.089	1.00 11.45
ATOM					53.978	-35.845	10.833	1.00 15.88
ATOM					54.305	-35.533	9.482	1.00 16.64
			TYR Y		56.745	-36.167	16.498	1.00 9.35
ATOM					56.657	-36.866	17.763	1.00 6.31
ATOM					55.522	-37.875	17.716	1.00 3.48
ATOM			TYR Y		54.560	-37 755	16.936	
ATOM			TYR Y		54.300	_25 007	18.913	
ATOM					56.419	-33.03/	18.910	
ATOM	1 11813					-34.722	-	
MOTA	1 11814		1 TYR Y		58.086	-34.410	20.035	
ATON			2 TYR	Y 40	57.463	-33.920	17.800	
ATON			1 TYR		58.955	-33.301	20.067	
ATO			2 TYR		58.320	-32.814	17.804	
10TA 10TA					59.068	-32.496	18.941	1.00 13.28
AT OF			, , , , , , ,					•

ATOM	11819	OH	TYR Y	40	59.884 -31.359 18.925	1.00 11.69
ATOM	11820	N	GLN Y	41	55.672 -38.923 18.494	1.00 2.00
ATOM	11821	CA	GLN Y	41	54.583 -39.877 18.598	1.00 7.68
ATOM	11822	С	GLN Y	41	54.159 -39.705 20.064	1.00 8.66
ATOM	11823	0	GLN Y	41	54.974 -39.434 20.947	1.00 12.79
ATOM	11824	CB	GLN Y	41	55.040 -41.310 18.377	1.00 8.59
ATOM	11825	CG	GLN Y	41		1.00 9.41
ATOM	11826	CD	GLN Y			1.00 15.84
MOTA	11827	OE1	GLN Y			1.00 16.99
ATOM	11828	NE2	GLN Y		56.061 -44.075 20.634	1.00 19.92
ATOM	11829	N	GLN Y		52.889 -39.835 20.356	1.00 8.83
ATOM	11830	CA	GLN Y		52.508 -39.691 21.743	1.00 13.87
ATOM	11831	C	GLN Y			1.00 15.77
ATOM	11832	Ō	GLN Y		50.517 -40.950 21.297	1.00 13.77
ATOM	11833	СВ	GLN Y		51.944 -38.300 22.052	1.00 13.13
ATOM	11834	CG	GLN Y		51.061 -38.317 23.286	
ATOM	11835	CD	GLN Y		50.687 -36.940 23.811	1.00 9.72
ATOM	11836	OE1	GLN Y		49.951 -36.157 23.148	1.00 5.67
ATOM	11837	NE2	GLN Y		51.166 -36.637 25.023	1.00 3.22
MOTA	11838	N	LYS Y		51.714 -41.469 23.131	1.00 20.39
ATOM	11839	CA	LYS Y		50.814 -42.514 23.564	1.00 20.69
ATOM	11840	С	LYS Y		49.849 -41.923 24.567	1.00 22.63
ATOM	11841	0	LYS Y		50.096 -40.836 25.103	1.00 21.01
ATOM	11842	CB	LYS Y		51.612 -43.627 24.231	1.00 21.21
ATOM	11843	CG	LYS Y		52.694 -44.254 23.340	1.00 19.72
ATOM	11844	CD	LYS Y		52.128 -45.275 22.352	1.00 18.64
ATOM	11845	CE	LYS Y		53.013 -46.523 22.292	1.00 23.20
ATOM	.11846	NZ	LYS Y	43	54.365 -46.189 21.746	1.00 29.61
ATOM	11847	N	PRO Y	44	48.728 -42.622 24.820	1.00 26.83
ATOM	11848	CA	PRO Y	44	47.753 -42.105 25.790	1.00 25.39
ATOM	11849	С	PRO Y	44	48.419 -42.102 27.157	1.00 22.69
ATOM	11850	0	PRO Y	44	49.175 -43.035 27.500	1.00 18.90
ATOM	11851	CB	PRO Y	44	46.600 -43.100 25.727	1.00 25.08
ATOM	11852	CG	PRO Y	44	46.824 -43.873 24.406	1.00 30.30
ATOM	11853	CD	PRO Y	44	48.302 -43.904 24.225	1.00 27.32
ATOM	11854	N	GLY Y	45	48.150 -41.044 27.915	1.00 17.85
ATOM	11855	CA	GLY Y	45	48.727 -40.930 29.231	1.00 20.32
ATOM	11856	С	GLY Y	45	50.149 -40.423 29.287	1.00 25.05
MOTA	11857	0	GLY Y	45	50.533 -39.825 30.293	1.00 27.51
ATOM	11858	N	GLN Y	46	50.920 -40.634 28.213	1.00 28.12
ATOM	11859	CA	GLN Y	46	52.327 -40.215 28.156	1.00 24.91
ATOM	11860	С	GLN Y	46	52.587 -38.944 27.334	1.00 22.24
ATOM	11861	0	GLN Y		51.750 -38.510 26.515	1.00 22.20
ATOM	11862	СВ	GLN Y	46		1.00 30.10
MOTA	11863	CG	GLN Y	46	52.559 -42.729 27.746	1.00 39.64
ATOM	11864	CD	GLN Y		53.586 -43.819 27.901	1.00 43.88
ATOM	11865		GLN Y			1.00 47.26
ATOM	11866	NE2	GLN Y		53.753 -44.312 29.130	1.00 51.27
ATOM	11867	N	PRO Y		53.773 -38.340 27.530	1.00 16.19
ATOM	11868	CA	PRO Y		54.119 -37.122 26.804	1.00 13.72
ATOM	11869	C	PRO Y		54.696 -37.522 25.497	1.00 13.72
ATOM	11870	0	PRO Y		55.066 -38.653 25.322	1.00 14.83
ATOM	11871	CB	PRO Y		55.146 -36.450 27.690	1.00 24.28
ATOM	11872	CG	PRO Y			
	11873				55.696 -37.556 28.559 54.873 -38.791 28.391	
ATOM		CD	PRO Y			1.00 10.83
MOTA	11874	N	PRO Y		54.809 -36.598 24.560	1.00 12.88
ATOM	11875	CA	PRO Y		55.359 -36.946 23.265	1.00 11.95
ATOM	11876	С	PRO Y		56.755 -37.517 23.399	1.00 11.39
ATOM	11877	0	PRO Y		57.442 -37.215 24.365	1.00 16.03
ATOM	11878	СВ	PRO Y	48	55.369 -35.612 22.533	1.00 11.67

							00 100	1.00 12.06
MOTA	11879	CG	PRO Y	48	54.355		23.180	
MOTA	11880	CD	PRO Y	48	54.487		24.624	1.00 16.34
ATOM	11881	N	LYS Y	49	57.170		22.413	1.00 6.51
ATOM	11882	CA	LYS Y	49	58.507		22.357	1.00 7.61
MOTA	11883	С	LYS Y	49	59.031	-38.414	21.012	1.00 10.21
ATOM	11884	ō	LYS Y	49	58.327	-38.582	20.003	1.00 14.86
ATOM	11885	СВ	LYS Y	49	58.448	-40.404	22.306	1.00 13.01
ATOM	11886	CG	LYS Y	49		-41.090	22.560	1.00 21.49
	11887	CD	LYS Y	49		-41.255	21.286	1.00 28.54
MOTA	11888	CE	LYS Y	49		-41.041	21.533	1.00 33.35
MOTA			LYS Y	49		-39.600	21.521	1.00 27.83
ATOM	11889	NZ	LEU Y	50		-37.831	20.969	1.00 10.62
MOTA	11890	N		50		-37.329	19.690	1.00 8.58
MOTA	11891	CA	LEU Y	50		-38.453	18.785	1.00 3.30
ATOM	11892	С	LEU Y			-39.325	19.206	1.00 3.32
ATOM	11893	0	LEU Y	50		-36.480	19.929	1.00 10.87
MOTA	11894	CB	LEU Y	50		-36.285	18.722	1.00 9.58
MOTA	11895	CG	LEU Y	50		-36.092	17.408	1.00 2.04
MOTA	11896	CD1		50				1.00 10.06
ATOM	11897	CD2		50	63.872	-35.079	19.067	1.00 10.00
ATOM	11898	N	LEU Y	51	60.789	-38.447	17.547	
ATOM	11899	CA	LEU Y	51		-39.513	16.645	
ATOM	11900	С	LEU Y	51		-39.022	15.570	1.00 8.30
ATOM	11901	0	LEU Y	51		-39.614	15.349	1.00 11.06
ATOM	11902	CB	LEU Y	51		-40.150	15.984	1.00 4.77
ATOM	11903	CG	LEU Y	51	59.287	-41.154	16.854	1.00 7.31
ATOM	11904	CD1	LEU Y	51		-40.822	16.816	1.00 15.25
ATOM	11905	CD2	LEU Y	51		-42.540	16.304	1.00 12.46
ATOM	11906	N	ILE Y	52	61.733	-37.938	14.911	1.00 5.88
ATOM	11907	CA	ILE Y	52	62.522	-37.394	13.850	1.00 2.00
ATOM	11908	C	ILE Y	52	62.676	-35.925	14.048	1.00 7.62
ATOM	11909	ō	ILE Y	52	61.709	-35.260	14.377	1.00 11.74
ATOM	11910	СВ	ILE Y	52	61.811	-37.670	12.568	1.00 2.00
ATOM	11911	CG1		52	62.028	-39.128	12.242	1.00 11.07
ATOM	11912	CG2		52	62.357	-36.899	11.447	1.00 4.35
ATOM	11913	CD1		52	60.976	-39.716	11.351	1.00 17.62
MOTA	11914	N	LYS Y	53		-35.420	13.842	1.00 11.36
ATOM	11915	CA	LYS Y	53		-33.991	13.952	1.00 9.55
ATOM	11916	c	LYS Y	53		-33.457	12.619	1.00 7.42
ATOM	11917	Ö	LYS Y	. 53		-34.161	11.844	1.00 6.24
ATOM	11918	СВ	LYS Y	53		-33.734	15.024	1.00 12.93
	11919	CG	LYS Y	53		-34.350	14.673	1.00 20.33
MOTA	11920	CD	LYS Y	53		-35.083	15.859	1.00 28.06
MOTA	11921	CE	LYS Y	53		-34.125	16.853	1.00 26.17
ATOM		NZ	LYS Y			-34.737	17.388	1:00 22.53
ATOM	11922		TYR Y	54		-32.195	12.363	1.00 7.72
	11923	N		54		-31.536	11.140	1.00 4.79
ATOM	11924	CA	TYR Y	54		-32.357	9.941	1.00 8.26
MOTA		C	TYR Y			-32.824	9.153	1.00 9.40
ATOM		0	TYR Y	54.		-31.320	11:112	1.00 2.00
MOTA		CB	TYR Y	54		-30.564	12.277	1.00 2.00
ATOM		CG	TYR Y	54		-31.196	13.460	1.00 2.00
ATOM			1 TYR Y	54			12.212	1.00 2.00
ATOM			2 TYR Y	54		-29.199	14.563	1.00 5.23
MOTA			1 TYR Y	54		-30.481		1.00 3.23
MOTA			2 TYR Y	54		-28.472	13.320	
MOTA			TYR Y	54		-29.128	14.477	
ATOM	11934	OH				-28.488	15.556	1.00 2.00
ATOM	11935		ALA Y			-32.605		1.00 11.30
ATOM	11936					-33.271		
ATOM	11937	С	ALA Y) -34.639		
ATOM	11938	0	ALA Y	55	62.030	-35.361	7.821	1.00 14.23

ATOM	11939	СВ	ALA '	Y 55	62	.564	-32.404	7.540	1.00	11.31
ATOM	11940	N	SER			.129	-35.025	8.615	1.00	6.57
ATOM	11941	CA	SER		64	.523	-36.356	8.173	1.00	5.39
ATOM	11942	C	SER			.558	-37.168	8.926	1.00	2.00
ATOM	11943	Ō	SER				-38.249	8.487	1.00	2.00
ATOM	11944	СВ	SER				-36.274	6.744	1.00	2.00
ATOM	11945	OG	SER				-36.134	6.770		16.12
ATOM	11946	И	ASN				-36.659	10.048	1.00	2.00
ATOM	11947	CA	ASN				-37.411	10.823	1.00	5.60
ATOM	11948	C	ASN				-38.054	12.050	1.00	5.53
	11949		ASN				-37.365	12.921	1.00	7.49
MOTA		O CB		Y 5			-36.531	11.316		14.86
MOTA	11950	CB		Y 5			-35.318	10.472		22.63
MOTA	11951	CG					-35.416	9.319		28.69
ATOM	11952						-34.154	11.031		28.83
ATOM	11953			Y 5			-39.361	12.173	1.00	4.23
ATOM	11954	N	LEU						1.00	4.59
ATOM	11955	CA	LEU				-40.117	13.315		3.66
MOTA	11956	С	LEU				-39.670	14.603	1.00	
MOTA	11957	0_	LEU				-39.546	14.660	1.00	5.80
MOTA	11958	CB		Y 51			-41.576	13.161	1.00	5.16
ATOM	11959	CG	LEU				-42.380	12.625	1.00	6.67
MOTA	11960	CD1				5.563	-42.916	11.236	1.00	7.09
MOTA	11961	CD2	LEU			1.954	-43.495	13.618	1.00	3.80
MOTA	11962	N	GLU				-39.434	15.641	1.00	8.32
ATOM	11963	CA		Y 5		.452	-38.988	16.908	1.00	4.75
ATOM	11964	С	GLU			1.182	-40.163	17.380	1.00	6.08
MOTA	11965	0	GLU				-41.222	16.802	1.00	4.92
MOTA	11966	CB		Y 5			-38.680	17.866	1.00	3.34
ATOM	11967	CG	GLU				-38.679	19.286	1.00	5.88
ATOM	11968	CD	GLU				-37.514	19.531	1.00	8.81
ATOM	11969	OE1		Y 5			-36.989	20.657	1.00	
MOTA	11970	OE2					-37.107	18.561	1.00	
ATOM	11971	N	SER				-39.991	18.395		11.02
ATOM	11972	CA	SER				-41.136	18.863		22.66
MOTA	11973	С	SER				-42.141	19.541		21.54
ATOM	11974	0	SER				-41.778	20.450		30.43
ATOM	11975	CB	SER				-40.727	19.803		24.65
MOTA	11976	OG	SER				-41.522	19.504		42.78
MOTA	11977	N	GLY				-43.400	19.112		18.47
ATOM	11978	CA	GLY				-44.400	19.761	1.00	
ATOM	11979	С	GLY				-44.800	18.967	1.00	
MOTA	11980	0	\mathtt{GLY}				-45.914	19.071	1.00	
MOTA	11981	N	VAL				-43.893	18.133	1.00	9.36
ATOM	11982	CA	VAL				-44.203	17.365	1.00	
ATOM	11983	С	VAL				-45.335	16.452	1.00	4.95
ATOM	11984	0	VAT				-45.336	15.949	1.00	8.84
ATOM	11985	CB	VAL				-43.017	16.501	1.00	4.37
ATOM	11986		VAL				-43.400	15.654	1.00	9.61
ATOM	11987	CG2	VAL				-41.865	17.344	1.00	8.66
ATOM	11988	N	PRO				-46.328	16.260	1.00	2.15
MOTA	11989	CA	PRO				-47.495	15.413	1.00	2.00
MOTA	11990	С	PRO				-47.100	13.962	1.00	2.87
MOTA	11991	0	PRO				-46.173	13.557	1.00	3.62
MOTA	11992	CB	PRO				-48.392	15.772	1.00	2.00
ATOM	11993	CG	PRO	Y 6			-47.857	17.044	1.00	4.36
MOTA	11994	CD	PRO				-46.414	16.955	1.00	4.42
ATOM	11995	N	ALA				-47.835	13.164	1.00	6.96
ATOM	11996	CA	ALA		4 6	4.789	-47.502	11.771	1.00	8.72
ATOM	11997	С	ALA		4 6	3.551	-47.477	10.926	1.00	
ATOM	11998	0	ALA	Y 6	4 6	3.605	-46.881	9.866	1.00	17.75

					65 703 -48 387 11.131 1.00 5.64
MOTA	11999	CB	ALA Y	64	05.755 -40.507
ATOM	12000		ARG Y	65	62.447 -48.113 11.327 1.00 15.19
MOTA	12001		ARG Y	65	61.280 -48.067 10.432 1.00 16.00
			ARG Y	65	60.900 -46.602 10.261 1.00 15.84
MOTA	12002				60.504 -46.157 9.169 1.00 17.19
MOTA	12003	0	ARG Y	65	00.004 10.20
ATOM	12004	CB	ARG Y	65	00.000
MOTA	12005	CG	ARG Y	65	60.144 -49.414 12.413 1.00 24.89
ATOM	12006	CD	ARG Y	65	58.862 -50.249 12.752 1.00 15.55
ATOM	12007	NE	ARG Y	65	58.345 -49.905 14.071 1.00 9.58
	12007	CZ	ARG Y	65	58.965 -50.159 15.223 1.00 6.98
MOTA				65	60.191 -50.664 15.253 1.00 5.56
MOTA	12009		ARG Y		58.379 -49.824 16.356 1.00 8.39
MOTA	12010	NH2	ARG Y	65	30.373 .3702.
MOTA	12011	N	PHE Y	66	01.001 45.007 11.00
MOTA	12012	CA	PHE Y	66	00.712 11.100
ATOM	12013	С	PHE Y	66	61.617 -43.680 10.450 1.00 7.44
MOTA	12014	0	PHE Y	66	62.811 -43.888 10.466 1.00 10.37
ATOM	12015	СВ	PHE Y	66	60.829 -43.840 12.763 1.00 10.73
	12015	CG	PHE Y	66	59.771 -44.307 13.694 1.00 4.81
ATOM				66	58.475 -43.832 13.562 1.00 2.06
MOTA	12017	CD1	PHE Y		60.056 -45.312 14.616 1.00 2.00
ATOM	12018		PHE Y	66	00.000 10.012 =
MOTA	12019		PHE Y	66	0,,,,,,
MOTA	12020	CE2	PHE Y	66	59.092 -45.844 15.363 1.00 4.91
MOTA	12021	CZ	PHE Y	66	57.778 -45.377 15.220 1.00 12.00
ATOM	12022	N	SER Y	67	61.025 -42.797 9.671 1.00 2.00
ATOM	12023	CA	SER Y	67	61.749 -42.024 8.710 1.00 2.00
	12023	C	SER Y	67	60.875 -40.854 8.359 1.00 6.92
ATOM				67	59.663 -40.909 8.563 1.00 11.65
ATOM	12025	0	SER Y		61.937 -42.893 7.481 1.00 2.00
MOTA	12026	CB	SER Y	67	61.099 -42.534 6.381 1.00 3.03
MOTA	12027	0G	SER Y	67	01.000
MOTA	12028	N	GLY Y	68	V
ATOM	12029	CA	GLY Y	68	
ATOM	12030	С	GLY Y	68	61.331 -37.853 6.252 1.00 16.90
MOTA	12031	0	GLY Y	68	62.552 -37.792 6.118 1.00 22.32
ATOM	12032	N	SER Y	69	60.497 -37.206 5.451 1.00 15.73
ATOM	12033	СA	SER Y	69	61.002 -36.410 4.365 1.00 11.26
ATOM	12034	С	SER Y	69	60.123 -35.190 4.175 1.00 14.34
ATOM	12035	0	SER Y	69	59.161 -35.018 4.919 1.00 19.91
ATOM	12036	СВ	SER Y	69	60.971 -37.224 3.128 1.00 8.60
ATOM	12037	OG	SER Y	69	60.061 -36.612 2.242 1.00 20.67
ATOM	12038	N	GLY Y	70	60.461 -34.355 3.185 1.00 15.03
ATOM	12039	CA	GLY Y	70	59.691 -33.158 2.898 1.00 11.51
	12040	C	GLY Y	70	60.566 -31.940 2.861 1.00 9.10
MOTA	12040	Ö	GLY Y	70	61.750 -32.049 3.049 1.00 14.62
MOTA				71	59.976 -30.775 2.661 1.00 11.54
ATOM	12042	N	SER Y		60.724 -29.529 2.569 1.00 9.67
ATOM	12043	CA	SER Y	71	
MOTA	12044	С	SER Y	71	
MOTA	12045	0	SER Y	71	00.020
MOTA	12046	CB	SER Y	71	61.699 -29.606 1.394 1.00 9.98
MOTA	12047	OG	SER Y	71	61.033 -29.578 0.127 1.00 12.31
MOTA	12048	N	GLY Y	72	60.115 -27.175 2.635 1.00 13.96
ATOM	12049	CA	GLY Y	72	59.206 -26.069 2.401 1.00 15.20
ATOM		С	GLY Y	72	57.978 -26.129 3.274 1.00 14.57
ATOM		Ō	GLY Y	72	58.033 -25.789 4.449 1.00 19.32
MOTA		N	THR Y	73	56.865 -26.582 2.719 1.00 15.08
		CA	THR Y	73	55.654 -26.620 3.515 1.00 12.93
MOTA				73	55.023 -27.962 3.696 1.00 12.63
MOTA		С	THR Y		54.019 -28.054 4.397 1.00 19.49
MOTA		0	THR Y	73	54.568 -25.711 2.942 1.00 11.95
ATOM		CB	THR Y	73	54.278 -26.117 1.594 1.00 6.32
MOTA			l THR Y	73	
MOTA	12058	CG2	2 THR Y	73	55.012 -24.209 3.033 1.00 8.03

				7.4	55.573 -	20 001	3.073	1.00 10.16	;
ATOM	12059	И	ASP Y	74	55.009 -		3.203	1.00 4.66	
MOTA	12060	CA	ASP Y	74			3.693	1.00 2.11	
MOTA	12061	С	ASP Y	74	56.025 -				
MOTA	12062	0	ASP Y	74	57.135 -		3.203		
MOTA	12063	CB	ASP Y	74	54.413 -		1.870	1.00 5.11	
ATOM	12064	CG	ASP Y	74	53.146 -		1.503	1.00 8.61	
MOTA	12065		ASP Y	74	52.072 -	-30.288	2.097	1.00 16.82	
ATOM	12066		ASP Y	74	53.210 -	-29.101	0.639	1.00 2.20	
ATOM	12067	N	PHE Y	75	55.632 <i>-</i>	-32.117	4.668	1.00 2.43	3
	12068	CA	PHE Y	75	56.515 -		5.219	1.00 4.28	3
ATOM		C	PHE Y		55.772 -		5.498	1.00 7.85	5
ATOM	12069				54.562 -		5.661	1.00 11.6	7
MOTA	12070	0	PHE Y		57.137 -		6.480	1.00 2.04	
MOTA	12071	СВ	PHE Y		57.137 57.927 <i>-</i>		6.223	1.00 4.79	
MOTA	12072	CG	PHE Y				6.308	1.00 11.8	
ATOM	12073		PHE Y		57.346				
MOTA	12074	CD2			59.240 -		5.814		
MOTA	12075	CE1	PHE Y		58.061 -		5.980	1.00 6.7	
ATOM	12076	CE2	PHE Y	75	59.940 -		5.499	1.00 4.2	
ATOM	12077	CZ	PHE Y	75	59.340		5.582	1.00 5.9	
ATOM	12078	N	THR Y	76	56.499	-35.501	5.515	1.00 5.7	
ATOM	12079	CA	THR Y		55.893	-36.772	5.810	1.00 4.9	
MOTA	12080	C	THR Y		56.762	-37.458	6.822	1.00 7.8	3
	12081	Õ	THR Y		57.902		7.046	1.00 9.6	8
ATOM		СВ	THR Y		55.843		4.628	1.00 2.0	0
MOTA	12082		_		57.176		4.110	1.00 5.6	4
MOTA	12083	OG1				-37.007	3.641	1.00 2.0	
MOTA	12084	CG2				-38.453	7.478	1.00 7.6	
ATOM	12085	N	LEU 7			-39.263	8.501	1.00 6.1	
ATOM	12086	CA	LEU ?				8.177	1.00 9.9	
MOTA	12087	С	FER ?			-40.649			
MOTA	12088	0	TEO ?			-40.827	8.030		
MOTA	12089	CB	LEU ;			-38.854	9.880		
ATOM	12090	CG	LEU ?			-39.718	11.094	1.00 2.0	
ATOM	12091	CD3	LEU :	r 77		-40.675	11.362	1.00 2.0	
MOTA	12092	CD2	LEU Y	r 77		-40.549	10.845	1.00 10.2	
MOTA	12093	N	THR :	r 78	57.191	-41.638	8.015	1.00 3.2	
ATOM	12094	CA	THR :	Y 78	56.627	-42.933	7.689	1.00 4.0	
ATOM	12095	С	THR '	Y 78	57.268	-44.135	8.287	1.00 3.2	
ATOM	12096	0	THR '		58.460	~44.290	8.211	1.00 12.4	
ATOM	12097	СВ	THR		56.493	~43.169	6.124	1.00 2.8	
ATOM	12098	OG:			57.163	-44.374	5.758	1.00 2.0	0
ATOM	12099	CG				-42.048	5.303	1.00 2.0	00
ATOM	12100	N	ILE '			-44.992	8.896	1.00 2.7	74
ATOM	12101	CA	ILE			-46.220	9.498	1.00 3.8	30
		C	ILE	_		-47.212	8.369	1.00 6.8	37
ATOM	12102					-47.303	7.670	1.00 6.3	32
ATOM	12103	0	ILE			-46.671	10.562	1.00 7.3	
MOTA		CB				-45.438	11.407	1.00 7.3	
MOTA			1 ILE			-47.850	11.318	1.00 7.5	
MOTA			2 ILE			-45.706	12.647	1.00 2.0	
MOTA			1 ILE				8.164	1.00 12.	
MOTA		N	SER			-47.934		1.00 12.	
MOTA	12109	CA				-48.881	7.039		
ATOM	12110	С	SER	X 80		-50.083	7.119	1.00 12.	
ATOM	12111	0	SER	Y 80		-50.647	6.096	1.00 19.	
ATOM	12112	CB	SER	Y 80		-49.359	6.826	1.00 10.	
ATOM						-49.757	8.039	1.00 15.	
ATOM			SER		56.911	-50.488	8.329	1.00 11.	
ATOM						-51.594	8.530	1.00 12.	
ATOM			SER		55.631	-51.526	10.015	1.00 16.	
ATOM			SER			-51.857	10.912	1.00 12.	
ATOM						-52.924	8.267	1.00 2.	54
VION		CL	, ,,,,,,	- 01					

						400	FO 154	9.363	1.00 19.08
MOTA	12119	OG	SER Y	81			-53.154	10.234	1.00 16.68
MOTA	12120	N	VAL Y	82			-51.077		1.00 18.21
MOTA	12121	CA	VAL Y	82			-50.886	11.548	
MOTA	12122	С	VAL Y	82			-52.072	12.485	1.00 18.22
MOTA	12123	0	VAL Y	82			-53.232	12.074	1.00 17.61
ATOM	12124	СВ	VAL Y	82		52.309	-50.510	11.414	1.00 18.64
ATOM	12125	CG1	VAL Y	82			-50.407	12.757	1.00 19.68
ATOM	12126	CG2	VAL Y	82		52.191	-49.178	10.721	1.00 15.28
ATOM	12127	N	GLU Y	83			-51.753	13.753	1.00 16.79
	12128	CA	GLU Y	83			-52.758	14.763	1.00 19.36
ATOM		C	GLU Y	83		53.424	-52.337	15.853	1.00 18.05
MOTA	12129		GLU Y	83			-51.142	16.017	1.00 19.38
ATOM	12130	0		83			-52.733	15.253	1.00 28.43
MOTA	12131	CB	GLU Y				-52.738	14.110	1.00 38.91
MOTA	12132	CG	GLU Y	83		58.211	-53.312	14.500	1.00 45.52
MOTA	12133	CD	GLU Y	83		50.211	-53.404	15.708	1.00 47.06
MOTA	12134	OE1		83				13.568	1.00 50.53
MOTA	12135	OE2		83			-53.674	16.624	1.00 17.93
MOTA	12136	N	PRO Y	84			-53.301		1.00 17.55
MOTA	12137	CA	PRO Y	84			-52.964	17.706	
ATOM	12138	С	PRO Y	84			-51.725	18.459	
MOTA	12139	0	PRO Y	84			-50.834	18.552	1.00 14.94
MOTA	12140	CB	PRO Y	84			-54.196	18.596	1.00 13.45
MOTA	12141	CG	PRO Y	84		52.107		17.611	1.00 21.65
ATOM	12142	CD	PRO Y	84	•		-54.754	16.554	1.00 19.32
ATOM	12143	N	GLU Y	85			-51.627	18.929	1.00 18.02
ATOM	12144	CA	GLU Y	85		53.932	-50.165	19.721	1.00 20.81
ATOM	12145	С	GLU Y	85		53.708	-49.148	18.982	1.00 15.26
ATOM	12146	0	GLU Y	85		53.381	-48.133	19.587	1.00 17.39
ATOM	12147	СВ	GLU Y	85		55.399	-50.567	20.259	1.00 27.70
ATOM	12148	CG	GLU Y	85		56.527	-51.137	19.350	1.00 40.32
ATOM	12149	CD	GLU Y	85		57.964	-50.829	19.886	1.00 49.15
MOTA	12150	OE1		85		58.967	-51.173	19.203	1.00 51.48
MOTA	12151	OE2		85		58.094	-50.241	20.991	1.00 53.18
MOTA	12152	N	ASP Y	86		53.842	-49.176	17.672	1.00 7.00
	12153	CA	ASP Y	86			47.980	16.879	1.00 8.00
MOTA MOTA	12154	C	ASP Y	86		52.383		16.893	1.00 10.05
	12155	Ö	ASP Y	86			-46.065	16.537	1.00 5.99
ATOM	12156	СВ	ASP Y	86			-48.304	15.446	1.00 14.77
ATOM	12157	CG	ASP Y	86			-48.617	15.251	1.00 14.16
MOTA			L ASP Y	86			-48.421	16.223	1.00 13.96
MOTA	12158			86			3 -49.051	14.119	1.00 21.42
ATOM	12159		2 ASP Y PHE Y	87			7 -48.010	17.219	1.00 13.52
ATOM	12160	N		87			5 -47.409	17.265	1.00 12.11
ATOM	12161	CA	PHE Y	87			3 -46.325	18.308	1.00 9.09
MOTA	12162	С	PHE Y				3 -46.554	19.496	1.00 6.68
ATOM	12163	0	PHE Y	87			4 -48.474	17.500	1.00 8.38
ATOM		CB	PHE Y	87				16.296	1.00 7.28
ATOM		CG	PHE Y	87			7 -49.287	16.287	1.00 2.00
MOTA			1 PHE Y	87			3 -50.630		1.00 2.58
MOTA	12167		2 PHE Y	87			9 -48.701	15.152	1.00 2.30
MOTA	12168		1 PHE Y	87			7 -51.408	15.156	
MOTA	12169			87			2 -49.447	14.010	
ATOM	12170	CZ	PHE Y	87			9 -50.823	13.995	1.00 7.87
MOTA	12171	N	ALA Y	88			0 -45.116	17.839	1.00 4.34
ATOM		CA	ALA Y	88			8 -44.009	18.746	
ATOM		С	ALA Y	88			5 -42.824	17.951	1.00 5.41
ATOM			ALA Y	88			7 -42.987	16.885	
ATOM			ALA Y	88		51.12	4 -43.795	19.326	
ATOM			THR Y				9 -41.640		
ATOM						49.12	3 -40.469	17.769	
ATOM			THR Y			50.36	0 -39.624	17.517	1.00 8.09

ATOM	12179	0	THR	Y	89	51.176 -39.437	18.424	1.00 8.26
ATOM	12180	СВ	THR	Y	89	48.067 -39.738	18.601	1.00 12.61
ATOM	12181	OG1	THR		89	46.772 -40.119	18.112	1.00 15.36
ATOM	12182	CG2	THR		89	48.274 -38.171	18.559	1.00 11.70
MOTA	12183	N	TYR		90	50.481 -39.105	16.296	1.00 5.80
MOTA	12184	CA	TYR	Y	90	51.652 -38.332	15.891	1.00 7.97
ATOM	12185	С	TYR	Y	90	51.510 -36.828	15.570	1.00 6.69
MOTA	12186	0	TYR		90	50.612 -36.379	14.840	1.00 2.00
ATOM	12187	СВ	TYR		90	52.323 -39.031	14.684	1.00 11.34
ATOM								
	12188	CG	TYR		90	52.783 -40.454	14.932	1.00 14.65
MOTA	12189	CD1	TYR		90	51.870 -41.444	15.266	1.00 17.30
MOTA	12190	CD2	TYR	Y	90	54.137 -40.800	14.897	1.00 14.65
ATOM	12191	CE1	TYR	Y	90	52.284 -42.732	15.577	1.00 16.85
MOTA	12192	CE2	TYR	Y	90	54.564 -42.103	15.208	1.00 14.16
ATOM	12193	CZ	TYR		90	53.611 -43.053	15.554	1.00 13.69
ATOM	12194	ОН	TYR		90	53.926 -44.323	15.936	1.00 14.52
MOTA	12195	N	TYR		91	52.460 -36.056	16.083	1.00 5.78
ATOM	12196	CA	TYR	Y	91	52.471 -34.623	15.826	1.00 8.03
ATOM	12197	С	TYR	Y	91	53.728 -34.193	15.057	1.00 7.16
ATOM	12198	0	TYR	Y	91	54.828 -34.673	15.321	1.00 8.37
ATOM	12199	СВ	TYR		91	52.450 -33.844	17.147	1.00 12.04
ATOM	12200	CG	TYR		91	51.264 -34.114		
							18.028	1.00 12.13
ATOM	12201	CD1	TYR		91	50.024 -33.492	17.777	1.00 13.79
MOTA	12202	CD2	TYR		91	51.351 -35.015	19.066	1.00 4.36
ATOM	12203	CE1	TYR	Y	91	48.899 -33.776	18.539	1.00 8.40
ATOM	12204	CE2	TYR	Y	91	50.237 -35.301	19.833	1.00 12.79
ATOM	12205	CZ	TYR	Y	91	49.016 -34.679	19.563	1.00 11.81
ATOM	12206	OH	TYR		91	47.920 -34.991	20.334	1.00 24.65
ATOM	12207	N	CYS		92	53.567 -33.287		
							14.114	1.00 2.34
MOTA	12208	CA	CYS		92	54.705 -32.779	13.394	1.00 5.93
MOTA	12209	С	CYS		92	54.791 -31.393	14.042	1.00 11.63
ATOM	12210	0	CYS	Y	92	53.766 -30.851	14.447	1.00 16.53
ATOM	12211	CB	CYS	Y	92	54.372 -32.657	11.899	1.00 2.00
MOTA	12212	SG	CYS	Y	92	53.113 -31.372	11.741	1.00 6.61
MOTA	12213	N	GLN		93	55.988 -30.822	14.149	1.00 13.24
ATOM	12214	CA	GLN		93	56.151 -29.491	14.733	1.00 9.95
	12215							
ATOM		C	GLN		93	57.391 -28.798	14.229	1.00 10.01
ATOM	12216	0	GLN		93	58.461 -29.379	14.157	1.00 12.19
MOTA	12217	CB	GLN		93	56.238 -29.527	16.236	1.00 3.82
MOTA	12218	CG	GLN	Y	93	57.062 -28.383	16.772	1.00 3.80
ATOM	12219	CD	GLN	Y	93	58.357 -28.851	17.413	1.00 3.49
ATOM	12220	OE1	GLN	Y	93	58.959 -28.140	18.183	1.00 7.65
ATOM	12221	NE2		Y	93	58.798 -30.039	17.070	1.00 2.82
ATOM	12222	N	HIS		94	57.238 -27.529	13.904	1.00 9.49
	12223	-				58.335 -26.747		
ATOM		CA	HIS		94		13.395	1.00 7.90
MOTA	12224	С	HIS		94	59.144 -26.086	14.501	1.00 6.92
ATOM	12225	0	HIS	Y	94	58.995 -26.420	15.693	1.00 2.00
ATOM	12226	CB	HIS	Y	94	57.809 -25.712	12.414	1.00 6.11
MOTA	12227	CG	HIS	Y	94	57.311 -24.483	13.074	1.00 9.16
ATOM	12228	ומא	HIS	Υ	94	57.059 -23.321	12.388	1.00 14.01
ATOM	12229		HIS		94	56.950 -24.248	14.359	1.00 15.33
ATOM								
	12230		HIS		94	56.547 -22.423	13.217	1.00 18.08
ATOM	12231		HIS		94	56.469 -22.967	14.421	1.00 16.84
ATOM	12232	N	SER		95	60.033 -25.193	14.061	1.00 5.81
ATOM	12233	CA	SER	Y	95	60.948 -24.445	14.923	1.00 8.02
MOTA	12234	С	SER	Y	95	61.563 -23.369	14.071	1.00 4.33
ATOM	12235	0	SER		95	62.698 -22.991	14.263	1.00 2.00
ATOM	12236	CB	SER		95	62.081 -25.330	15.451	1.00 7.04
ATOM	12237	OG	SER		95	62.903 -25.727	14.374	1.00 8.38
MOTA	12238	N					13.152	1.00 7.47
AT OF	12230	14	TRP	T	96	60.766 -22.870	70.102	1.47

					20 244	1.00 5.68
MOTA	12239	CA TRP Y	96	61.185 -21.846	12.244	1.00 5.68 1.00 7.60
ATOM	12240	C TRP Y	96	61.183 -20.540	12.947	
ATOM	12241	O TRP Y	96	61.962 -19.675	12.588	1.00 15.86
ATOM	12242	CB TRP Y	96	60.221 -21.740	11.109	1.00 10.17
	12243	CG TRP Y	96	60.647 -20.832	10.089	1.00 7.07
MOTA	12243	CD1 TRP Y	96	60.207 -19.573	9.890	1.00 10.31
MOTA			96	61.554 -21.122	9.040	1.00 14.90
MOTA	12245	CD2 TRP Y		60.771 -19.049		1.00 16.44
MOTA	12246	NE1 TRP Y	96	61.616 -19.978	8.220	1.00 16.09
MOTA	12247	CE2 TRP Y	96	62.327 -22.242		1.00 15.90
MOTA	12248	CE3 TRP Y	96	62.321 -22.242	7.087	1.00 12.96
MOTA	12249	CZ2 TRP Y	96	62.417 -19.917	7.007	1.00 14.48
MOTA	12250	CZ3 TRP Y	96	63.118 -22.186	7.585	1.00 15.40
ATOM	12251	CH2 TRP Y	96	63.158 -21.029	6.782	
ATOM	12252	N GLU Y	97	60.295 -20.356		1.00 4.24
ATOM	12253	CA GLU Y	97	60.284 -19.093	14.662	1.00 5.82
ATOM	12254	C GLU Y	97	59.639 -19.238	15.989	1.00 2.83
	12255	O GLU Y	97	59.352 -20.346	16.388	1.00 11.93
MOTA			97	59.597 -17.946	13.918	1.00 3.26
MOTA	12256		97	58.140 -17.951	13.909	1.00 12.73
MOTA	12257	CG GLU Y		57.603 -17.136		1.00 27.14
MOTA	12258	CD GLU Y	97	58.417 -16.643		1.00 28.29
MOTA	12259	OE1 GLU Y	97			1.00 34.93
MOTA	12260	OE2 GLU Y	97	56.363 -16.980		1.00 2.00
MOTA	12261	N IFE A	98	59.501 -18.15		
MOTA	12262	CA ILE Y	98	58.768 -18.22		
ATOM	12263	C ILE Y	98	57.326 -17.80		
ATOM	12264	O ILE Y	98	57.128 -16.81		1.00 9.28
MOTA	12265	CB ILE Y	98	59.269 -17.25		1.00 3.58
MOTA	12266	CG1 ILE Y	98	60.574 -17.77	1 19.589	1.00 11.81
	12267	CG2 ILE Y	98	58.263 -17.10	9 20.053	1.00 2.00
MOTA	12268	CD1 ILE Y	98	60.856 -17.32		1.00 14.36
ATOM			99	56.300 -18.55		1.00 5.88
MOTA	12269			56.368 -19.72		1.00 3.29
MOTA	12270			56.384 -21.03		1.00 2.52
MOTA	12271	C PRO Y		55.809 -21.15		1.00 3.23
MOTA	12272	O PRO Y		55.093 -19.60	2 19.700	1.00 2.00
MOTA	12273	CB PRO Y				1.00 2.00
MOTA	12274	CG PRO Y		54.157 -19.20		1.00 2.00
MOTA	12275	CD PRO Y		54.895 -18.31		1.00 2.00
ATOM	12276	N PRO Y		57.062 -22.04		1.00 2.00
ATOM	12277	CA PRO Y		57.010 -23.25	9 17.811	
MOTA	12278	C PRO Y	100	55.574 -23.67		
MOTA		O PRO Y	100	54.946 -23.41	3 18.925	1.00 2.02
ATOM		CB PRO Y	100	57.863 -24.25	6 18.563	1.00 4.17
MOTA		CG PRO	100	57.880 -23.73		1.00 5.37
MOTA				57.812 -22.23	3 19.864	1.00 2.00
ATOM				55.045 -24.34	4 16.934	1.00 2.92
				53.668 -24.77	3 17.011	1.00 2.72
MOTA				53.508 -26.14	16 16.421	1.00 3.04
ATOM				54.109 -26.45	15.377	1.00 2.00
ATOM				52.815 -23.80	55 16.229	
MOTA			101	53.266 -23.9		
ATOM				53.266 -23.3	_	
ATOM	12289			52.859 -22.4		
ATOM	12290		Y 102	52.625 -26.93	23 17.061	
ATOM			Y 102	52.348 -28.3	08 16.672	
ATOM			Y 102	51.180 -28.5	12 15.711	
ATOM			Y 102	50.303 -27.6	61 15.580	
ATOM			Y 102	52.122 -29.1	74 17.900	
ATOM			Y 102	53.301 -29.2	44 18.832	
ATOR				53.508 -28.2	77 19.791	
				54.115 -30.3	50 18.849	
ATON				54.499 -28.4		
MOTA	1 1229	n CET EUF	1 102	33.433 2011		

ATOM	12299	CE2	PHE Y 10	02	55.099	-30,490	19.821	1.00	2.00
ATOM	12300	CZ	PHE Y 10		55.284	-29.538	20.776	1.00	2.00
					51.239		14.973	1.00	7.36
ATOM	12301	И	GLY Y 10					1.00	2.31
MOTA	12302	CA	GLY Y 10		50.194		14.034		
ATOM	12303	С	GLY Y 10	03	49.010	-30.487	14.826	1.00	4.49
ATOM	12304	0	GLY Y 1	03	49.101	-30.706	16.051	1.00	2.00
ATOM	12305	N	GLY Y 1			-30.700	14.118	1.00	5.23
						-31.195	14.733	1.00	9.99
ATOM	12306	CA	GLY Y 10						6.64
MOTA	12307	С	GLY Y 1			-32.565	15.367	1.00	
ATOM	12308	0	GLY Y 1	04	46.175	-32.852	16.392		11.56
MOTA	12309	N	GLY Y 1	05	47.587	-33.407	14.781	1.00	4.36
ATOM	12310	CA	GLY Y 1		47.726	-34.725	15.336	1.00	2.00
	12311	C	GLY Y 1			-35.677	14.360	1.00	2.00
MOTA			GLY Y 1			-35.274	13.553	1.00	2.00
MOTA	12312	0							2.00
MOTA	12313	И	THR Y 1			-36.908	14.378	1.00	
·ATOM	12314	CA	THR Y 1	06	47.057	-37.933	13.518	1.00	3.37
ATOM	12315	С	THR Y 1	06	47.049	-39.160	14.410	1.00	6.55
ATOM	12316	0	THR Y 1	06	48.004	-39.475	15.122	1.00	12.02
MOTA	12317	СВ	THR Y 1			-38.181	12.240	1.00	2.00
						-37.276	11.186	1.00	2.00
MOTA	12318	OG1							
MOTA	12319	CG2				-39.628	11.724	1.00	2.00
ATOM	12320	N	LYS Y 1	.07	45.949	-39.858	14.422	1.00	5.31
ATOM	12321	CA	LYS Y 1	.07	45.956	-41.014	15.252	1.00	7.19
ATOM	12322	С	LYS Y 1		46.314	-42.104	14.295	1.00	9.19
ATOM	12323	ō	LYS Y 1			-42.080	13.131	1.00	9.56
						-41.226	15.850	_	11.26
MOTA	12324	СВ	LYS Y 1						11.43
ATOM	12325	CG	LYS Y 1			-42.598	16.447		
ATOM	12326	CD	LYS Y 1	.07		-42.475	17.628		12.18
ATOM	12327	CE	LYS Y 1	.07	42.104	-43.349	17.432		12.74
ATOM	12328	NZ	LYS Y 1	107	41.741	-43.860	18.765	1.00	18.49
ATOM	12329	N	LEU Y 1			-43.027	14.761	1.00	8.28
	12330	CA	LEU Y 1			-44.155	13.942	1.00	8.04
MOTA			LEU Y 1			-45.307	14.515	1.00	9.31
MOTA	12331	С							8.82
MOTA	12332	0	LEU Y 1			-46.074	15.367	1.00	
ATOM	12333	CB	LEU Y 1			-44.442	13.976	1.00	7.13
MOTA	12334	CG	LEU Y 1	108	49.321	-45.518	12.934	1.00	4.05
MOTA	12335	CD1	LEU Y 1	108	49.097	-45.036	11.529	1.00	2.00
ATOM	12336	CD2		108	50.738	-45.969	13.155	1.00	13.92
	12337	N	GLU Y 1			-45.386	14.027	1.00	9.03
ATOM			GLU Y 1			-46.397	14.425	1.00	_
ATOM	12338	CA					13.848	1.00	7.61
MOTA	12339	С	GLU Y 1			-47.810			
MOTA	12340	0	GLU Y 1			-47.956	12.866	1.00	10.59
ATOM	12341	CB	GLU Y 1	109		-45.881	14.027	1.00	
ATOM	12342	CG	GLU Y 1	109	41.939	-46.473	14.814		16.59
ATOM	12343	CD	GLU Y 1	109		-46.935	13.898	1.00	18.32
	12344	OE1				-47.430	12.790		15.58
ATOM						-46.807	14.272		22.04
MOTA	12345		GLU Y 1					1.00	3.66
MOTA	12346	N	ILE Y			-48.843	14.456		
ATOM	12347	CA	ILE Y			-50.219	13.988	1.00	3.53
MOTA	12348	С	ILE Y	110	43.327	-50.593	12.965	1.00	6.27
ATOM	12349	0	ILE Y		42.174	-50.629	13.312	1.00	12.58
ATOM	12350	СВ	ILE Y			-51.195	15.157	1.00	2.81
			L ILE Y			-50.778	16.300	1.00	3.23
ATOM	12351						14.678	1.00	2.00
MOTA	12352	CG2				-52.618			
MOTA	12353	CD:				-51.826	17.368	1.00	2.45
ATOM	12354	N	LYS Y	111		-50.892	11.719	1.00	
ATOM	12355	CA	LYS Y	111		-51.268	10.729	1.00	8.86
MOTA	12356	С	LYS Y			-52.541	11.328	1.00	11.03
ATOM	12357	ō	LYS Y			-53.206	12.118	1.00	5.37
	12358	СВ	LYS Y			-51.591	9.347		13.62
ATOM	12370	CD	, ב כינ	TTT	30.203	51.551			

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MOTA	12359	CG	LYS Y	111	42.585	-50.970	8.075	1.00	
ATOM	12360	CD	LYS Y	111	43.338	-51.230	6.663	1.00	26.32
			LYS Y			-50.060	6.165	1.00	28.62
MOTA	12361		_						
MOTA	12362	NZ	LYS Y	111		-49.856	4.662	1.00	2.00
MOTA	12363	N .	ARG Y	112	40.852	-52.838	10.969		15.84
MOTA	12364		ARG Y		40.117	-54.035	11.397	1.00	15.70
						-53.934	10.660	1.00	17.20
MOTA	12365		ARG Y						
MOTA	12366	0	ARG Y	112		-52.823	10.478		22.37
ATOM	12367	CB	ARG Y	112	39.932	-54.026	12.923		11.67
ATOM	12368		ARG Y	112	39,122	-52.842	13.475	1.00	7.51
						-53.286	13.612		14.07
MOTA	12369		ARG Y						
MOTA	12370		ARG Y			-54.357	14.602		13.14
MOTA	12371	CZ	ARG Y	112	36.868	-55.500	14.409	1.00	4.02
ATOM	12372		ARG Y		36,281	-55.774	13.246	1.00	2.00
			ARG Y			-56.359	15.417	1.00	2.00
MOTA	12373								13.13
ATOM	12374	N	THR Y			-55.062	10.221		
MOTA	12375	CA	THR Y	113	36.974	-55.003	9.486		11.25
MOTA	12376	С	THR Y		35,862	-54.299	10.259	1.00	12.45
			THR Y			-54.422	11.496	1.00	9.63
MOTA	12377	0						1.00	9.29
ATOM	12378	CB	THR Y			-56.381	9.128		
ATOM	12379	OG1	THR Y	113	36.419	-57.180	10.305		15.40
ATOM	12380	CG2	THR Y	113	37.372	-57.034	8.156	1.00	14.14
	12381	И		114		-53.611	9.507	1.00	8.95
ATOM							10.077	1.00	8.41
ATOM	12382	CA	VAL Y			-52.902			
ATOM	12383	С	VAL Y	114	33.143	-53.848	11.057		13.92
ATOM	12384	0	VAL Y	114	33.274	-55.097	10.995	1.00	16.89
ATOM	12385	СВ	VAL Y		32.920	-52.514	8.975	1.00	13.24
						-52.239	9.570		17.64
ATOM	12386	CG1	VAL Y						
ATOM	12387	CG2	VAL Y	114		-51.294	8.218		10.14
ATOM	12388	N	ALA Y	115	32.329	-53.259	11.931	1.00	9.77
ATOM	12389	CA	ALA Y		31.597	-54.032	12.922	1.00	5.36
			ALA Y			-53.142	13.340	1.00	8.93
ATOM	12390	С							7.91
MOTA	12391	0	ALA Y			-52.030	13.750	1.00	
ATOM	12392	CB	ALA Y	115		-54.328	14.094	1.00	2.00
ATOM	12393	N	ALA Y	116	29.253	-53.606	13.188	1.00	15.81
ATOM	12394	CA	ALA Y			-52.793	13.575	1.00	10.53
						-52.758	15.085	1.00	7.52
ATOM	12395	С	ALA Y						
ATOM	12396	0	ALA Y			-53.688	15.764	1.00	9.83
ATOM	12397	CB	ALA Y	116		-53.379	13.001	1.00	
ATOM	12398	N	PRO Y	117	27.554	-51.678	15.643	1.00	4.93
ATOM	12399	CA	PRO Y			-51.673	17.094	1.00	5.80
						-52.295	17.605	1.00	
MOTA	12400	С	PRO Y						
ATOM	12401	0	PRO Y	117		-52.287	16.914	1.00	
ATOM	12402	CB	PRO Y	117		-50.210	17.409	1.00	6.66
· ATOM	12403	CG	PRO Y	117	26.681	-49.645	16.324	1.00	2.00
ATOM	12404	CD	PRO Y			-50.452	15.090	1.00	2.07
					26.371	-52.819	18.823		18.35
MOTA	12405	N	SER Y		20.290	-52.019			
MOTA	12406	CA	SER Y	118	25.094	-53.375	19.434		21.55
MOTA	12407	С	SER Y	118	24.658	-52.332	20.448	1.00	18.45
ATOM	12408	0	SER Y	118	25.332	-52.150	21.451	1.00	18.56
			SER Y			-54.703	20.155		21.78
ATOM	12409	CB							28.85
ATOM	12410	OG	SER Y			-54.660	20.832		
ATOM	12411	N	VAL Y	119		-51.646	20.197		14.79
ATOM	12412	CA	VAL Y	119	23.101	-50.642	21.143	1.00	16.04
ATOM	12413	c c	VAL Y			-51.181	22.260	1.00	16.50
						-52.157	22.065		20.05
ATOM	12414	0	VAL Y						
ATOM	12415	CB	VAL Y			-49.520	20.408		17.45
MOTA	12416	CG1	VAL Y	119	22.898	-49.409	19.016		18.13
ATOM	12417		VAL Y		20.948	-49.795	20.358		20.02
ATOM	12418	N	PHE Y		22 230	-50.552	23.430		18.69
AT ON	15410	44	لم بندند	120	22.230				

3.0007	20420				01 704		
MOTA	12419	CA	PHE Y		21.394 -50.934	24.577	1.00 21.04
ATOM	12420	С	PHE Y	120	21.010 -49.688	25.353	1.00 24.55
ATOM	12421	0	PHE Y		21.862 -48.878	25.704	1.00 28.93
MOTA	12422	CB	PHE Y		22.128 -51.841	25.520	1.00 17.98
ATOM	12423	CG	PHE Y	120	22.914 -52.873	24.854	1.00 18.69
ATOM	12424	CD1	PHE Y	120	22.485 -54.183	24.870	1.00 26.68
ATOM	12425	CD2	PHE Y		24.144 -52.576		
						24.324	1.00 21.96
ATOM	12426	CE1	PHE Y		23.268 -55.212	24.383	1.00 29.35
ATOM	12427	CE2	PHE Y	120	24.944 -53.591	23.830	1.00 27.66
ATOM	12428	CZ	PHE Y	120	24.504 -54.921	23.865	1.00 30.90
ATOM	12429	N	ILE Y		19.727 -49.540		
						25.659	1.00 28.51
ATOM	12430	CA	ILE Y		19.268 -48.341	26.350	1.00 24.71
ATOM	12431	С	ILE Y	121	18.837 -48.615	27.780	1.00 27.28
ATOM	12432	0	ILE Y	121	18.042 -49.524	28.053	1.00 27.16
ATOM	12433	СВ	ILE Y		18.126 -47.675		
						25.546	1.00 15.83
ATOM	12434	CG1	ILE Y		17.632 -46.461	26.276	1.00 7.00
ATOM	12435	CG2	ILE Y	121	17.029 -48.651	25.265	1.00 10.69
ATOM	12436	CD1	ILE Y	121	16.985 -45.547	25.330	1.00 11.69
ATOM	12437	N	PHE Y		19.413 -47.848	28.694	
							1.00 27.98
ATOM	12438	CA	PHE Y		19.094 -47.977	30.106	1.00 28.69
ATOM	12439	С	PHE Y	122	18.290 -46.740	30.568	1.00 30.70
ATOM	12440	0	PHE Y	122	18.706 -45.591	30.355	1.00 29.71
ATOM	12441	СВ	PHE Y		20.380 -48.104	30.927	
							1.00 28.31
MOTA	12442	CG	PHE Y		21.270 -49.255	30.526	1.00 27.06
ATOM	12443	CD1	PHE Y	122	21.403 -50.363	31.346	1.00 27.55
ATOM	12444	CD2	PHE Y	122	22.031 -49.204	29.376	1.00 29.30
ATOM	12445	CE1	PHE Y		22.289 -51.406	31.026	1.00 27.79
ATOM	12446	CE2					
			PHE Y		22.915 -50.244	29.058	1.00 26.55
ATOM	12447	CZ	PHE Y		23.041 -51.344	29.889	1.00 23.43
ATOM	12448	N	PRO Y	123	17.119 -46.962	31.198	1.00 33.53
ATOM	12449	CA	PRO Y	123	16.246 -45.894	31.692	1.00 31.59
ATOM	12450	С	PRO Y		16.584 -45.644	33.149	
ATOM	12451						1.00 33.23
		0	PRO Y		17.016 -46.553	33.855	1.00 35.90
ATOM	12452	CB	PRO Y		14.867 -46.462	31.506	1.00 27.85
MOTA	12453	CG	PRO Y	123	15.083 -47.967	31.228	1.00 33.51
ATOM	12454	CD	PRO Y		16.516 -48.266	31.485	1.00 33.06
ATOM	12455	N	PRO Y		16.352 -44.420		
	12456					33.624	1.00 33.01
ATOM		CA	PRO Y		16.625 -43.936	34.977	1.00 34.31
ATOM	12457	С	PRO Y		16.543 -44.892	36.146	1.00 41.26
ATOM	12458	0	PRO Y	124	15.509 -45.491	36.423	1.00 45.61
ATOM	12459	CB	PRO Y	124	15.691 -42.752	35.115	1.00 30.86
ATOM	12460	CG	PRO Y		15.641 -42.203		
						33.754	1.00 29.76
ATOM	12461	CD	PRO Y		15.671 -43.395	32.822	1.00 31.95
MOTA	12462	И	SER Y		17.662 -45.031	36.840	1.00 47.93
ATOM	12463	CA	SER Y	125	17.712 -45.886	38.014	1.00 53.71
MOTA	12464	С	SER Y		16.655 -45.304	38.942	1.00 58.26
ATOM	12465	Ō	SER Y				
					16.703 -44.108	39.292	1.00 59.55
MOTA	12466	CB	SER Y		19.095 -45.795	38.671	1.00 56.06
MOTA	12467	OG	SER Y	125	19.916 -44.829	38.011	1.00 64.78
ATOM	12468	N	ASP Y	126	15.683 -46.128	39.316	1.00 61.14
ATOM	12469	CA	ASP Y		14.637 -45.662	40.201	
	12470						1.00 61.83
ATOM		С	ASP Y		15.344 -44.914	41.331	1.00 60.56
ATOM	12471	0	ASP Y		14.963 -43.786	41.686	1.00 62.05
ATOM	12472	CB	ASP Y	126	13.833 -46.858	40.731	1.00 66.91
ATOM	12473	CG	ASP Y		12.616 -47.186	39.852	1.00 72.95
ATOM	12474		ASP Y				
					12.187 -46.287	39.087	1.00 75.06
ATOM	12475		ASP Y		12.092 -48.330	39.920	1.00 71.74
ATOM	12476	N	GLU Y	127	16.407 -45.530	41.850	1.00 54.36
ATOM	12477	CA	GLU Y	127	17.169 -44.947	42.934	1.00 51.76
ATOM	12478	С	GLU Y		17.681 -43.553	42.610	1.00 51.05
		-	-20 1		Z,.001 40.003	42.010	T.00 3T.02

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ATOM	12479	0	GLU Y 127	1		-42.701	43.495	1.00	
ATOM	12480		GLU Y 127		18.331	-45.856	43.303	1.00	
		CG	GLU Y 127		19,280	-45.206	44.294	1.00	
MOTA	12481		GLU Y 127			-46.113	44.709	1.00	67.11
MOTA	12482	CD				-45.602	45.337	1.00	
ATOM	12483	OE1	GLU Y 127		21.307	43.002			67.58
ATOM	12484	OE2	GLU Y 127			-47.333	44.413		
MOTA	12485	N	GLN Y 128	}		-43.333	41.342		50.28
ATOM	12486	CA	GLN Y 128		18.539	-42.050	40.859		48.94
MOTA	12487	C.	GLN Y 128			-41.010	40.692	1.00	50.29
			GLN Y 128			-39.797	40.727	1.00	49.10
MOTA	12488	0				-42.238	39.526	1.00	47.15
MOTA	12489	CB	GLN Y 12			-41.053	39.104	1.00	
MOTA	12490	CG	GLN Y 12					1.00	
MOTA	12491	CD	GLN Y 12			-40.739	37.633		
MOTA	12492	OE1	GLN Y 12	3		-41.643	36.830		45.39
MOTA	12493	NE2		3	20.079	-39.462	37.271		37.98
ATOM	12494	N	LEU Y 12		16.208	-41.484	40.506		50.32
	12495	CA	LEU Y 12			-40.580	40.353	1.00	53.48
MOTA			LEU Y 12			-39.998	41.705	1.00	57.14
MOTA	12496	С				-38.909	41.798		58.13
ATOM	12497	0	LEU Y 12				39.721		48.33
MOTA	12498	CB	LEU Y 12			-41.310			46.54
ATOM	12499	CG	LEU Y 12			-41.455	38.212		
MOTA	12500	·CD1	LEU Y 12	9	13.441	-42.743	37.790		45.67
ATOM	12501	CD2			13.541	-40.239	37.441		40.85
ATOM	12502	N	LYS Y 13		15.051		42.753	1.00	59.50
			LYS Y 13			-40.329	44.126	1.00	62.36
MOTA	12503	CA				-39.198	44.462		62.09
MOTA	12504	С				7 -38.870	45.625		64.39
MOTA	12505	0	LYS Y 13				45.052		65.77
ATOM	12506	CB	LYS Y 13			3 -41.521			70.45
MOTA	12507	CG	LYS Y 13			4 -41.857	46.013		
MOTA	12508	CD	LYS Y 13	0		3 -41.991	45.321		74.20
MOTA	12509	CE	LYS Y 13	0	11.800	0-43.238	45.816		76.74
ATOM	12510	NZ	LYS Y 13		10.32	7 -42.995	46.031	1.00	79.97
ATOM	12511	N	SER Y 13		16.358	3 -38.610	43.430	1.00	61.55
ATOM	12512	CA	SER Y 13		17.30	1 - 37.528	43.620	1.00	62.06
	12513	C	SER Y 13			4 -36.364	42.676	1.00	61.21
ATOM			SER Y 13			2 -35.472	42.479	1.00	63.86
MOTA	12514	0				6 -38.052	43.409		64.93
MOTA	12515	CB	SER Y 13			5 -39.471	43.492		67.57
MOTA	12516	OG	SER Y 13				42.097		59.30
MOTA	12517	N	GLY Y 13			4 -36.366	41.225		59.60
ATOM	12518	CA	GLY Y 13			3 -35.268			59.36
MOTA	12519	С	GLY Y 13			2 -35.234	39.872		
MOTA	12520	0	GLY Y 13	32		2 -34.392	39.030		58.64
ATOM	12521	N	THR Y 13	33	17.05	6 -36.129	39.658		59.43
ATOM	12522	CA	THR Y 13			7 -36.175	38.366	1.00	57.04
ATOM	12523	C	THR Y 1		17,40	7 -37.467	37.668	1.00	53.42
			THR Y 1			6 -38.538	38.269	1.00	52.17
MOTA	12524	0				6 -36.043			58.47
MOTA	12525	CB	THR Y 1			9 -35.690			60.61
MOTA	12526	OG:							58.30
MOTA		CG				6 -34.960			49.82
ATOM	12528	N	ALA Y 1			6 -37.351			
ATOM	12529	CA	ALA Y 1	34		2 -38.512			47.92
MOTA	12530	С	ALA Y 1	34		8 -38.443			45.42
ATOM			ALA Y 1		17.69	4 -37.510			45.02
ATOM						8 -38.497			47.19
			SER Y 1			4 -39.402		1.00	39.79
MOTA						2 -39.437			34.02
ATOM									26.67
MOTA			SER Y 1			33 -40.800			17.84
ATOM			SER Y 1			23 -41.805			39.19
ATOM	12537	CB				23 -39.239			
ATOM	12538	OG	SER Y 1	35	21.26	54 -40.127	34.693	1.00	43.28

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ATOM	12539	N	VAL Y	136	19.215	-40.829	31.193	1.00	24.97
ATOM	12540	CA	VAL Y	136	19.101	-42.096	30.459	1.00	26.78
ATOM	12541	С	VAL Y			-42.344	29.587		26.52
MOTA	12542	0	VAL Y			-41.507	28.765		26.00
ATOM	12543	CB	VAL Y	136	17.883	-42.118	29.540	1.00	28.83
ATOM	12544	CG1	VAL Y	136		-40.756	28.854	1.00	34.16
ATOM	12545		VAL Y			-43.261	28.522		20.64
ATOM	12546	N	VAL Y		20.942	-43.509	29.804	1.00	23.25
MOTA	12547	CA	VAL Y	137	22.126	-43.935	29.104	1.00	17.91
ATOM	12548	С	VAL Y	137	21.888	-44.934	28.002	1.00	19.82
ATOM	12549	Ö	VAL Y			-46.000	28.191		16.75
MOTA	12550	CB	VAL Y			-44.561	30.035		16.67
ATOM	12551	CG1	VAL Y	137	24.144	-45.314	29.218	1.00	22.66
ATOM	12552	CG2	VAL Y	137	23.641	-43.487	30.950	1.00	15.21
ATOM	12553	N	CYS Y			-44.588	26.844		24.88
ATOM	12554	CA	CYS Y			-45.404	25.673		24.02
ATOM	12555	С	CYS Y	138	23.698	-45.936	25.470	1.00	22.10
ATOM	12556	0	CYS Y	138	24.662	-45.257	25.809	1.00	25.71
ATOM	12557	СВ	CYS Y			-44.473	24.571		21.63
ATOM	12558	SG	CYS Y			-45.109	22.924		31.05
MOTA	12559	N	LEU Y	' 139	23.865	-47.157	24.987	1.00	20.12
ATOM	12560	CA	LEU Y	139	25,220	-47.688	24.820	1.00	17.43
ATOM	12561	C	LEU Y			-48.489	23.553		18.34
			LEU Y						
ATOM	12562	0				-49.538	23.337		15.77
ATOM	12563	CB	LEU ?	139	25.567	-48.568	26.011	1.00	14.01
ATOM	12564	CG	LEU Y	139	26.495	-49.760	25.781	1.00	11.44
ATOM	12565	CD1	LEU Y	139	27,920	-49.266	25.834		14.27
ATOM	12566	CD2	LEU Y			-50.798	26.880		
									10.30
ATOM	12567	N	TEO ?			-48.032	22.755		20.59
ATOM	12568	CA	TEO ?	140	26.841	-48.743	21.515	1.00	24.53
ATOM	12569	С	LEU Y	140	28.041	-49.671	21.811	1.00	22.82
ATOM	12570	0		140		-49.186	21.932		24.19
ATOM	12571		TEO A						
		CB				-47.739	20.424		26.48
ATOM	12572	CG	LEU Y			-46.967	19.883	1.00	37.62
MOTA	12573	CD1	TEA A	140	25.510	-45.975	20.966	1.00	35.71
ATOM	12574	CD2	LEU Y	140	26,375	-46.246	18.577	1.00	34.36
ATOM	12575	N	ASN Y			-50.981	21.956		20.24
ATOM	12576		ASN Y						
		CA				-51.808	22.278		22.79
ATOM	12577	С	ASN Y		29.765	-52.327	21.107		27.25
MOTA	12578	0	ASN Y	141	29.192	-52.601	20.056	1.00	35.32
ATOM	12579	СВ	ASN Y	141	28.676	-53.019	23.157		21.48
MOTA	12580	CG	ASN Y			-53.494	23.955		26.49
ATOM	12581		ASN Y			-54.608	24.476		29.36
ATOM	12582	ND2	ASN Y			-52.623	24.033	1.00	32.15
ATOM	12583	N	ASN Y	142	31.070	-52.457	21.335	1.00	26.69
ATOM	12584	CA	ASN Y			-52.969	20.405		25.08
ATOM	12585	C	ASN Y			-52.760			25.74
							18.908		
ATOM	12586	0	ASN Y			-53.685	18.156		25.95
MOTA	12587	CB	ASN Y	142	32.283	-54.429	20.763	1.00	25.89
ATOM	12588	CG	ASN Y	142	32.896	-54.578	22.137	1.00	37.15
ATOM	12589		ASN Y			-55.030	23.102		42.44
ATOM	12590								
			ASN Y			-54.186	22.239		45.61
MOTA	12591	N	PHE 7			-51.507	18.495		21.58
ATOM	12592	CA	PHE Y	143	31.741	-51.112	17.102	1.00	21.12
ATOM	12593	С	PHE Y			-50.593	16.532		18.90
ATOM	12594	ō	PHE Y			-50.496	17.265		16.20
ATOM	12595								
		CB	PHE Y			~50.033	16.961		19.61
ATOM	12596	CG	PHE Y			-48.771	17.683		14.89
ATOM	12597		PHE Y		30.647	-48.631	19.017		13.81
ATOM	12598	CD2	PHE Y	143	31.593	-47.709	17.038	1.00	16.24

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MOTA	12599	CE1	PHE Y	143	30.918	-47.442	19.719	1.00 10.42
ATOM	12600	CE2	PHE Y	143		-46.505	17.738	1.00 12.47
ATOM	12601	CZ	PHE Y	143		-46.384	19.087	1.00 8.91
ATOM	12602	N	TYR Y	144		-50.313	15.219	1.00 16.39
ATOM	12603	CA	TYR Y			-49.823	14.450	1.00 8.89
ATOM	12604	C	TYR Y	144	33.690	-49.656	13.045	1.00 6.53
MOTA	12605	Ō	TYR Y	144		-50.516	12.540	1.00 11.40
ATOM	12606	СB	TYR Y	144		-50.852	14.428	1.00 12.52
MOTA	12607	CG	TYR Y	144		-50.427	13.578	1.00 17.87
ATOM	12608	CD1	TYR Y	144		-49.929	14.174	1.00 17.30
ATOM	12609	CD2	TYR Y	144		-50.409	12.180	1.00 17.68
ATOM	12610	CE1	TYR Y	144		-49.415	13.407	1.00 11.52
ATOM	12611	CE2		144		-49.896	11.416	1.00 13.11
ATOM	12612	CZ	TYR Y	144		-49.397	12.042	1.00 12.16
ATOM	12613	ОН	TYR Y	144		-48.862	11.299	1.00 13.32
MOTA	12614	N	PRO Y	145		-48.649	12.321	1.00 4.25
ATOM	12615	CA	PRO Y	145		-47.565	12.692	1.00 4.31
ATOM	12616	С	PRO Y	145		-46.845	13.827	1.00 8.62
ATOM	12617	0	PRO Y	145		-47.205	14.266	1.00 12.55
ATOM	12618	CB	PRO Y	145		-46.666	11.480	1.00 4.13
ATOM	12619	CG	PRO Y			-47.499	10.344	1.00 5.05
MOTA	12620	CD	PRO Y	145		-48.589	10.916	1.00 6.69
MOTA	12621	N	ARG Y	146		-45.807	14.283	1.00 10.65
MOTA	12622	CA	ARG Y			-44.974	15.398	1.00 15.16
MOTA	12623	С	ARG Y			-43.928	15.052	1.00 18.96
ATOM	12624	0	ARG Y			-43.358		1.00 24.99
MOTA	12625	CB	ARG Y			-44.260		1.00 13.43 1.00 15.50
ATOM	12626	CG	ARG Y			-43.562		1.00 13.30
ATOM	12627	CD	ARG Y			-42.161		1.00 36.03
MOTA	12628	NE	ARG Y			-41.636		1.00 30.03
MOTA	12629	CZ	ARG Y		35.387	7 -41.580 7 -42.029	19.344	1.00 33.31
MOTA	12630	NH				7 -42.029 7 -41.062		1.00 36.75
MOTA	12631		ARG Y			-41.002 -43.661		1.00 17.44
MOTA	12632	N	GLU Y	147		2 -42.686		1.00 16.12
ATOM	12633	CA	GLU Y			7 -43.283		1.00 18.26
MOTA	12634	С 0	GLU Y			5 -44.350		1.00 17.72
MOTA	12635 12636	СВ		147		5 -42.401		1.00 22.75
ATOM ATOM	12637	CG	GLU Y			2 -41.639		1.00 30.64
ATOM	12638	CD	GLU Y			3 -42.533		1.00 39.74
MOTA	12639	OE		147		8 -42.254		1.00 44.02
ATOM	12640			147	34.86	6 -43.479		1.00 37.73
ATOM	12641	N	ALA Y		30.34	0 -42.589	14.539	1.00 17.43
ATOM	12642	CA		148		5 -43.068		1.00 18.91
ATOM		С	ALA Y	148		3 -42.004		1.00 15.90
ATOM		0	ALA Y	148		1 -41.515		1.00 16.86
ATOM	12645	CB				8 -44.141		1.00 15.17
ATOM		N	LYS Y			4 -41.678		1.00 15.27
ATOM	12647	CA	LYS Y	149	26.03	6 -40.699	15.051	1.00 16.10
MOTA	12648	С	LYS Y			4 -41.34		1.00 20.05
ATOM	12649	0	LYS Y			6 -42.47		
ATOM	12650	CB				0 -40.16		
ATOM	12651		LYS >			1 -39.34		
ATOM						0 -38.06		
ATOM						0 -38.10		
MOTA					22.87	3 -38.74	1 11.213	
MOTA			VAL :			9 -40.59		
ATOM						2 -41.05		
ATOM				Y 150		5 -39.91		
ATOM	12658	0	VAL :	Y 150	23.11	4 -39.24	0 13.430	. 1.00 03.01

ATOM	12659	CB	VAL Y	150	24.539 -41.473	19.251	1.00 22.36
ATOM	12660	CG1	VAL Y	150	23.830 -42.561	19.968	1.00 31.81
ATOM	12661	CG2	VAL Y	150	25.911 -41.911	18.842	1.00 24.96
MOTA	12662	N	GLN Y	151	21.722 -39.708	17.731	1.00 33.62
MOTA	12663	CA	GLN Y	151	20.746 -38.644	18.024	1.00 32.26
ATOM	12664	С	GLN Y	151	19.772 -39.120	19.090	1.00 32.82
ATOM	12665	0	GLN Y	151	19.444 -40.304	19.127	1.00 35.26
ATOM	12666	CB	GLN Y	151	19.928 -38.347	16.773	1.00 33.78
ATOM	12667	CG	GLN Y	151	19.964 -36.940	16.288	1.00 38.82
MOTA	12668	CD	GLN Y	151	19.837 -36.862	14.775	1.00 43.20
ATOM	12669	OE1	GLN Y		20.413 -35.977	14.144	1.00 51.57
ATOM	12670	NE2	GLN Y	151	19.077 -37.781	14.184	1.00 43.63
						19.933	1.00 32.51
MOTA	12671	N	TRP Y		19.286 -38.207		
MOTA	12672	CA	TRP Y	152	18.292 -38.567	20.970	1.00 32.22
			TRP Y		16.866 -38.020	20.633	1.00 34.30
MOTA	12673	С					
ATOM	12674	0	TRP Y	152	16.708 -36.929	20.071	1.00 32.42
ATOM	12675	CB		152	18.703 -38.016	22.321	1.00 26.33
ATOM	12676	CG	TRP Y	152	19.615 -38.856	23.092	1.00 22.30
ATOM	12677	CD1	TRP Y	152	20.952 -38.677	23.219	1.00 20.43
ATOM	12678	CD2		152	19.266 -39.951	23.958	1.00 24.23
ATOM	12679	NEl	TRP Y	152	21.468 -39.576	24.112	1.00 18.79
						24.584	
ATOM	12680	CE2	TRP Y		20.459 -40.376		1.00 23.48
MOTA	12681	CE3	TRP Y	152	18.064 -40.610	24.273	1.00 24.57
ATOM	12682	CZ2	TRP Y		20.491 -41.442	25.513	1.00 21.90
ATOM	12683	CZ3	TRP Y	152	18.094 -41.672	25.205	1.00 23.55
ATOM	12684	CH2	TRP Y	152	19.307 -42.070	25.808	1.00 24.93
ATOM	12685	N	LYS Y	153	15.825 -38.770	20.975	1.00 36.35
ATOM	12686	CA	LYS Y	153	14.464 -38.323	20.683	1.00 38.57
ATOM	12687	С	LYS Y	153	13.517 -38.600	21.844	1.00 42.57
ATOM	12688	0	LYS Y	153	13.297 -39.764	22.212	1.00 45.28
			LYS Y		13.957 -39.009	19.425	1.00 35.05
MOTA	12689	CB					
MOTA	12690	CG	LYS Y	153	14.711 -38.552	18.209	1.00 42.94
ATOM	12691	CD	LYS Y	153	13.968 -38.879	16.896	1.00 50.17
MOTA	12:692	CE	LYS Y	153	14.837 -39.679	15.899	1.00 52.49
ATOM	12693	NZ	LYS Y	153	14.540 -41.143	15.973	1.00 55.06
ATOM	12694	N	VAL Y		12.991 -37.523	22.435	1.00 44.28
ATOM	12695	CA	VAL Y	154	12.049 -37.612	23.554	1.00 43.82
ATOM	12696	С	VAL Y		10.629 -37.276	23.125	1.00 45.01
ATOM	12697	0	VAL Y	154	10.335 -36.148	22.744	1.00 41.73
ATOM	12698	СВ	VAL Y	154	12.411 -36.665	24.690	1.00 41.00
MOTA	12699	CG1	VAL Y	154	11.448 -36.865	25.798	1.00 39.88
MOTA	12700	CG2	VAL Y	154	13.824 -36,939	25.188	1.00 42.08
	12701		ASP Y		9.750 -38.271	23.227	1.00 50.55
ATOM		N					
MOTA	12702	CA	ASP Y	155	8.350 -38.148	22.834	1.00 53.61
ATOM	12703	С	ASP Y	155	8.298 -37.580	21.429	1.00 53.27
ATOM	12704	0	ASP Y	155	7.574 -36.639	21.151	1.00 51.59
ATOM	12705	CB	ASP Y	155	7.592 -37.247	23.815	1.00 57.70
ATOM	12706	CG	ASP Y		7.122 -38.002	25.055	1.00 61.68
MOTA	12707	ODl	ASP Y	155	7.420 -39.210	25.166	1.00 62.29
MOTA	12708		ASP Y		6.453 -37.394	25.921	1.00 65.67
MOTA	12709	N	ASN Y	156	9.101 -38.172	20.553	1.00 57.01
MCTA	12710	CA	ASN Y	156	9.183 -37.772	19.153	1.00 59.77
ATOM	12711	С	ASN Y		9.912 -36.461	19.000	1.00 57.28
ATOM	12712	0	ASN Y	156	10.248 -36.063	17.889	1.00 56.97
							1.00 68.00
MOTA	12713	CB	ASN Y		7.788 -37.645	18.538	
ATOM	12714	CG	ASN Y	156	6.882 -38.842	18.852	1.00 76.54
ATOM	12715	OD1			7.336 -39.998	18.933	1.00 77.77
ATOM	12716	ND2	ASN Y	156	5.584 -38.567	19.013	1.00 78.77
ATOM	12717	N	ALA Y	157	10.147 -35.786	20.114	1.00 55.58
						20.084	
ATOM	12718	CA	ALA Y	1 J I	10.849 -34.514	20.004	1.00 57.17

ATOM	12719	С	ALA Y	157	12.353	-34.763	19.958	1.00	57.65
MOTA	12720		ALA Y		13.009	-35.134	20.939	1.00	59.44
ATOM	12721		ALA Y			-33.731	21.360		61.33
ATOM	12722	N	LEU Y			-34.560	18.758		56.27
			PEO 1			-34.793	18.535		55.09
ATOM	12723	CA					19.445		52.68
MOTA	12724	C,	LEU Y			-33.964			
ATOM	12725	0	LEU Y			-32.775	19.212		48.51
ATOM	12726	CB		158		-34.510	17.074		60.30
ATOM	12727	CG	LEU Y	158	16.198	-34.560	16.632		62.55
ATOM	12728	CD1	LEU Y	158	16.774	-33.153	16.649	1.00	60.97
MOTA	12729	CD2	LEU Y	158	17.019	-35.486	17.542	1.00	63.89
ATOM	12730	N	GLN Y	159	15.731	-34.610	20.487	1.00	53.55
ATOM	12731	CA	GLN Y		16,620	-33.969	21.448	1.00	52.27
ATOM	12732	C		159		-33.228	20.673		50.32
ATOM	12733	ō	GLN Y			-33.498	19.488		51.35
	12734	СВ	GLN Y			-35.023	22.319		55.32
ATOM						-35.532	23.415		55.86
ATOM	12735	CG	GLN Y						
ATOM	12736	CD	GLN Y			-34.402	24.166		57.71
MOTA	12737	OE1				-33.718	23.635		52.80
MOTA	12738	NE2	GLN Y			-34.181	25.412		59.02
MOTA	12739	N	SER Y	160	18.362	-32.297	21.320	1.00	46.85
MOTA	12740	CA	SER Y	160	19.400	-31.540	20.629	1.00	49.72
ATOM	12741	С	SER Y	160	20.038	-30.557	21.558	1.00	47.24
ATOM	12742	0	SER Y	160	21.029	-29.905	21.223	1.00	47.44
ATOM	12743	СВ	SER Y	160	18.844	-30.768	19.430	1.00	54.37
ATOM	12744	OG	SER Y			-29.770	19.011		59.25
ATOM	12745	N	GLY Y			-30.411	22.718		45.88
ATOM	12746	CA	GLY Y			-29.510	23.687		45.45
			GLY Y			-30.173	24.366		44.15
ATOM	12747	С							
ATOM	12748	0	GLY Y			-29.960	23.989		41.51
ATOM	12749	N	ASN Y			-31.014	25.355		45.40
MOTA	12750	CA	ASN Y			-31.625	26.047		48.68
ATOM	12751	С	ASN Y			-33.111	26.322		50.31
ATOM	12752	0	ASN Y			-33.645	26.919		52.95
ATOM	12753	CB	ASN Y	162		-30.862	27.338		52.86
MOTA	12754	CG	ASN Y	162	22.953	-29.534	27.089	1.00	55.99
ATOM	12755	ODl	ASN Y	162	23.231	-29.168	25.944	1.00	55.92
ATOM	12756	ND2	ASN Y	162	23.235	-28.804	28.161	1.00	59.88
ATOM	12757	N	SER Y	163	23.083	-33.742	25.859	1.00	48.17
ATOM	12758	CA	SER Y	163	23.391	-35.170	25.984	1.00	41.75
ATOM	12759	С	SER Y			-35.192	25.892		38.95
ATOM	12760	Ö	SER Y			-34.338	25.233		40.69
ATOM	12761	СВ	SER Y			-35.991	24.825		39.40
ATOM	12762	OG	SER Y			-35.329	23.592		38.92
	12763	N	GLN Y			-36.155	26.550		34.84
MOTA						-36.265	26.559		
ATOM	12764	CA	GLN Y						25.60
MOTA	12765	С	GLN Y			-37.656	26.183		24.41
MOTA	12766	0	GLN Y			-38.646	26.825		18.51
MOTA	12767	CB	GLN Y			-35.900	27.953		24.18
MOTA	12768	CG	GLN Y	164	27.789	-34.405	28.159	1.00	27.44
MOTA	12769	CD	GLN Y	164	28.468	-34.108	29.495	1.00	31.38
MOTA	12770	OE1	GLN Y		28.579	-34.988	30.350		35.48
MOTA	12771	NE2	GLN Y	164		-32.865	29.683	1.00	29.02
ATOM	12772	N	GLU Y			-37.701	25.151		25.95
ATOM	12773	CA	GLU Y			-38.927	24.644		17.27
ATOM	12774	С	GLU Y			-39.124	25.313		11.11
ATOM	12775	Ö	GLU Y			-38.188	25.787	1.00	3.11
ATOM	12776	СВ	GLU Y			-38.847	23.123		19.61
ATOM	12777	CG	GLU Y				22.258		29.39
						-38.963			
MOTA	12778	CD	GLU Y	T 02	28.273	-39.175	20.767	1.00	36.54

ATOM	12779	OE1	GLU Y	165	29.482 -39.274	20.456	1.00 45.64
MOTA	12780	OE2	GLU Y	165	27.359 -39.243	19.900	1.00 34.10
ATOM	12781	N	SER Y	166	30.802 -40.369	25.419	1.00 7.67
ATOM	12782	CA	SER Y	166	32.119 -40.663	25.945	1.00 7.55
MOTA	12783	С	SER Y		32.493 -41.948	25.226	1.00 10.63
ATOM	12784	0	SER Y	166	31.611 -42.822	25.021	1.00 7.15
ATOM	12785	СВ	SER Y		32.090 -40.887	27.424	1.00 10.05
ATOM	12786	OG	SER Y	166	33.264 -41.586	27.774	1.00 17.09
ATOM'	12787	N	VAL Y	167	33.780 -42.055	24.835	1.00 11.10
ATOM	12788	CA	VAL Y		34.254 -43.223	24.065	1.00 11.44
ATOM	12789	С	VAL Y	167	35.415 -44.024	24.650	1.00 9.33
ATOM	12790	0	VAL Y	167	36.055 -43.614	25.596	1.00 16.43
ATOM	12791	СВ	VAL Y		34.577 -42.825		
						22.592	1.00 2.00
ATOM	12792	CG1	VAL Y	167	34.877 -44.016	21.802	1.00 2.00
ATOM	12793	CG2	VAL Y	167	33.352 -42.231	21.955	1.00 4.94
	12794	N	THR Y				
ATOM					35.665 -45.203	24.144	1.00 3.63
ATOM	12795	CA	THR Y	168	36.784 -45.923	24.688	1.00 5.09
ATOM	12796	С	THR Y	168	37.855 -46.098	23.593	1.00 11.57
ATOM	12797	0	THR Y		37.573 -45.946	22.395	1.00 14.03
ATOM	12798	CB	THR Y	168	36.324 -47.273	25.171	1.00 10.01
ATOM	12799	OG1	THR Y		35.603 -47.948	24.114	1.00 12.51
ATOM	12800	CG2	THR Y		35.461 -47.091	26.385	1.00 7.94
ATOM	12801	N	GLU Y	169	39.086 -46.410	23.993	1.00 13.32
MOTA	12802	CA	GLU Y	169	40.158 -46.643	23.025	1.00 15.30
MOTA	12803	С	GLU Y		39.961 -48.011	22.416	1.00 13.11
ATOM	12804	0	GLU Y	169	39.352 -48.885	23.027	1.00 13.76
ATOM	12805	СВ	GLU Y	169	41.525 -46.575	23.698	1.00 23.65
MOTA	12806	CG	GLU Y		42.400 -45.359	23.307	1.00 33.28
ATOM	12807	CD	GLU Y	169	41.622 -44.056	23.156	1.00 38.73
MOTA	12808	OE1			40.555 -43.891	23.800	1.00 36.97
ATOM	12809	OE2	GLU Y		42.096 -43.191	22.380	1.00 45.00
ATOM	12810	N	GLN Y	170	40.446 -48.202	21.201	1.00 13.23
ATOM	12811	CA	GLN Y	170	40.248 -49.497	20.574	1.00 18.41
MOTA	12812	С	GLN Y		40.411 -50.632	21.579	1.00 19.30
ATOM	12813	0	GLN Y	170	41.295 -50.597	22.420	1.00 17.96
ATOM	12814	СВ	GLN Y	170	41.205 -49.673	19.411	1.00 15.06
ATOM	12815	CG	GLN Y		41.090 -48.600	18.401	1.00 11.57
MOTA	12816	CD	GLN Y	170	41.702 -49.034	17.108	1.00 14.25
MOTA	12817	OE1	GLN Y	170	41.032 -49.630	16.278	1.00 10.50
ATOM	12818	NE2	GLN Y		42.996 -48.765	16.934	1.00 15.44
ATOM	12819	N	ASP Y	171	39.529 -51.620	21.528	1.00 25.04
ATOM	12820	CA	ASP Y	1 7 1	39.629 -52.738	22.468	1.00 33.20
	12821	C					
ATOM			ASP Y		40.924 -53.512	22.285	1.00 33.07
MOTA	12822	0	ASP Y	171	41.368 -53.739	21.154	1.00 34.43
MOTA	12823	CB	ASP Y	171	38.436 -53.699	22.320	1.00 36.84
ATOM	12824	CG	ASP Y		38.245 -54.611	23.546	1.00 41.93
ATOM	12825	OD1	ASP Y	171	38.977 -54.463	24.558	1.00 44.21
ATOM	12826	OD2	ASP Y	171	37.352 -55.488	23.499	1.00 46.87
•	12827						
MOTA		N	SER Y		41.508 -53.930	23.407	1.00 31.48
MOTA	12828	CA	SER Y	172	42.750 -54.674	23.389	1.00 28.29
MOTA	12829	С	SER Y	172	42.494 -56.062	22.852	1.00 25.52
ATOM							
	12830	0	SER Y		43.427 -56.771	22.518	1.00 30.36
MOTA	12831	CB	SER Y	172	43.331 -54.762	24.787	1.00 29.17
ATOM	12832	OG	SER Y		42.574 -55.666	25.564	1.00 41.51
MOTA	12833	N	LYS Y		41.232 -56.446	22.749	1.00 25.01
ATOM	12834	CA	LYS Y	173	40.891 -57.769	22.238	1.00 27.14
MOTA	12835	С	LYS Y		40.399 -57.743	20.784	1.00 26.06
	12836						
ATOM		0	LYS Y		40.995 -58.386	19.933	1.00 29.71
ATOM	12837	CB	LYS Y	173	39.823 -58.410	23.106	1.00 34.08
MOTA	12838	CG	LYS Y		40.300 -59.403	24.123	1.00 41.14
		-			101000 011100	~	2.00 31.17

2 000	10000	22	LYS Y 173		39.093 -59.910	24.964	1.00 54.89
MOTA	12839	CD			38.999 -59.208	26.358	1.00 62.94
ATOM	12840	CE	LYS Y 173				1.00 63.24
MOTA	12841	NZ	LYS Y 173		37.619 -58.783	26.809	
MOTA	12842	N	ASP Y 174		39.319 -57.017	20.492	1.00 21.48
MOTA	12843	CA	ASP Y 174		38.783 -56.949	19.124	1.00 18.90
MOTA	12844	С	ASP Y 174		39.092 -55.626	18.384	1.00 19.75
ATOM	12845	Ō	ASP Y 174		38.661 -55.397	17.231	1.00 12.40
ATOM	12846	СВ	ASP Y 174		37.290 -57.130	19.179	1.00 19.44
		CG	ASP Y 174		36.633 -56.139	20.100	1.00 25.08
MOTA	12847				37.199 -55.037	20.371	1.00 22.61
MOTA	12848	OD1			35.529 -56.493	20.549	1.00 29.79
MOTA	12849	OD2				19.052	1.00 21.05
MOTA	12850	И	SER Y 175		39.837 -54.754		
MOTA	12851	CA	SER Y 175		40.186 -53.475	18.460	1.00 22.86
ATOM	12852	C	SER Y 175		38.918 -52.782	17.974	1.00 22.91
ATOM	12853	0	SER Y 175		38.813 -52.400	16.798	1.00 22.49
MOTA	12854	CB	SER Y 175		41.149 -53.714	17.301	1.00 23.33
MOTA	12855	OG	SER Y 175		42.233 -54.502	17.753	1.00 19.98
ATOM	12856	N	THR Y 176		37.947 -52.649	18.874	1.00 20.12
MOTA	12857	CA	THR Y 176		36.691 -52.015	18.503	1.00 19.15
	12858	C	THR Y 176		36.260 -51.052	19.559	1.00 19.84
ATOM			THR Y 176		36.532 -51.277	20.737	1.00 25.92
ATOM	12859	0				18.367	1.00 13.13
MOTA	12860	CB	THR Y 176		35.561 -53.023	19.623	1.00 13.13
MOTA	12861	OG1			35.387 -53.685		
ATOM	12862	CG2	THR Y 176		35.873 -54.045	17.289	1.00 12.32
ATOM	12863	N	TYR Y 177		35.544 -50.015	19.132	1.00 15.67
ATOM	12864	CA	TYR Y 177		35.039 -48.994	20.026	1.00 16.80
ATOM	12865	С	TYR Y 177	٠,	33.742 -49.328	20.778	1.00 18.38
MOTA	12866	0	TYR Y 177		33.073 -50.341	20.519	1.00 19.80
ATOM	12867	СВ	TYR Y 177		34.830 -47.718	19.243	1.00 16.53
ATOM	12868	CG	TYR Y 177		36.103 -47.215	18.655	1.00 14.93
ATOM	12869	CD1			37.132 -46.749	19.485	1.00 10.63
ATOM	12870	CD2			36.325 -47.290	17.281	1.00 15.50
	12871	CE1			38.362 -46.376	18.970	1.00 11.56
ATOM		CE2			37.541 -46.928	16.749	1.00 15.72
ATOM	12872		TYR Y 177		38.572 -46.469	17.608	1.00 15.59
ATOM	12873	CZ			39.833 -46.117	17.150	1.00 20.10
MOTA	12874	ОН	TYR Y 177			21.720	1.00 25.10
MOTA	12875	N	SER Y 178		33.404 -48.453		1.00 13.21
MOTA	12876	CA	SER Y 178		32.191 -48.576	22.520	
ATOM	12877	C	SER Y 178		32.008 -47.176	23.014	1.00 21.06
MOTA	12878	0	SER Y 178		32.901 -46.642	23.671	1.00 26.04
ATOM	12879	CB	SER Y 178		32.377 -49.516	23.707	1.00 13.89
MOTA	12880	OG	SER Y 178	•	32.558 -50.851	23.266	1.00 16.84
ATOM	12881	N	LEU Y 179		30.880 -46.570	22.666	1.00 20.89
ATOM	12882	CA	LEU Y 179		30.586 -45.200	23.062	1.00 22.60
ATOM	12883	С	LEU Y 179		29.406 -45.183	24.029	1.00 25.23
ATOM	12884	ō	LEU Y 179		28.626 -46.136	24.088	1.00 29.71
ATOM	12885	СВ	LEU Y 179		30.274 -44.393	21.797	1.00 19.82
	12886	CG	LEU Y 179		29.564 -43.038	21.757	1.00 20.58
MOTA			LEU Y 179		29.301 -42.663	20.311	1.00 17.52
ATOM	12887				28.251 -43.113	22.456	1.00 24.94
MOTA	12888		LEU Y 179				1.00 23.67
MOTA	12889	N	SER Y 180		29.266 -44.111	24.797	
MOTA	12890	CA	SER Y 180		28.146 -44.044	25.715	1.00 22.98
MOTA	12891	С	SER Y 180		27.478 -42.684	25.747	1.00 23.96
ATOM	12892	0	SER Y 180		27.955 -41.759	26.401	1.00 25.16
ATOM	12893	СВ	SER Y 180		28.593 -44.444	27.121	1.00 24.55
ATOM	12894	OG	SER Y 180		29.341 -43.421	27.758	1.00 26.22
ATOM	12895	N	SER Y 181		26.354 -42.569	25.046	1.00 25.10
ATOM	12896	CA	SER Y 181		25.614 -41.312	24.999	1.00 26.77
ATOM	12897	C	SER Y 181		24.641 -41.238	26.154	1.00 25.94
ATOM	12898	o	SER Y 181		23.790 -42.108	26.275	1.00 23.91
VI OU	12030	J	PEK I IOI		201.55 12.1100	•	

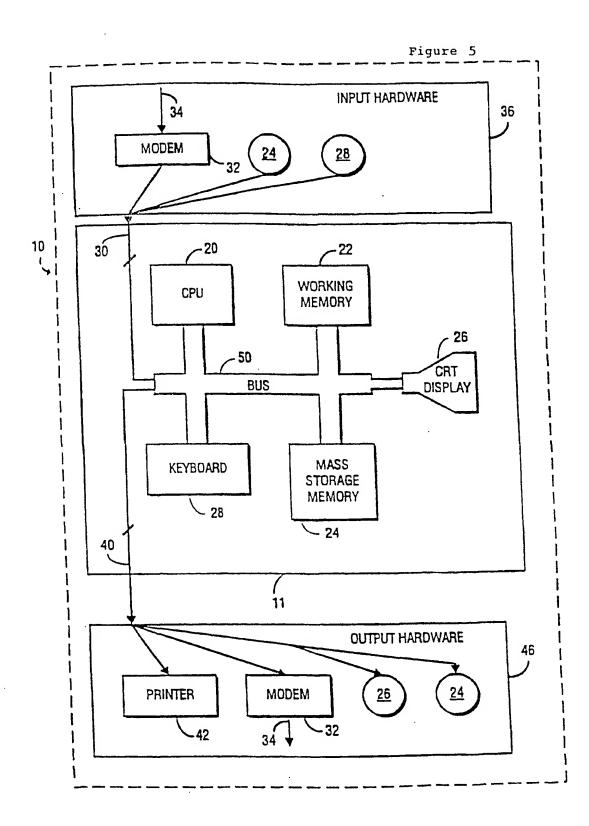
ATOM	12899	СВ	SER '	Y 18	81	24.826	-41.184	23.712	1.00 25.99
ATOM	12900	OG	SER '	Y 18	81	24.154	-39.930	23.730	1.00 32.43
ATOM	12901	N	THR '			24.743	-40.198	26.980	1.00 25.36
MOTA	12902	CA	THR '	Y 18	82	23.875	-40.097	28.140	1.00 24.95
ATOM	12903	С	THR				-38.937	28.193	1.00 26.48
ATOM	12904	ō	THR				-37.900	28.682	1.00 35.85
ATOM	12905	СВ	THR			24.682		29.444	1.00 25.02
ATOM	12906	OG1					-41.046	29.485	1.00 34.01
ATOM	12907	CG2	THR				-40.174	30.633	1.00 26.56
ATOM	12908	N	LEU				-39.091	27.731	1.00 26.68
ATOM	12909	CA	LEU .				-38.003	27.802	1.00 22.43
ATOM	12910	C	LEU				-37.764	29.262	1.00 24.08
MOTA	12911	0	LEU .				-38.700	30.079	1.00 24.00
ATOM	12912	СВ	LEU .				-38.370	27.147	1.00 17.33
ATOM	12912	CG	TEO .				-37.179	27.128	1.00 20.12
ATOM	12913	CD1					-36.637	25.734	1.00 19.00
		CD1						27.622	
ATOM	12915						-37.639		1.00 19.25 1.00 27.18
ATOM	12916	N	THR				-36.510	29.600	
ATOM	12917	CA	THR				-36.193	30.994	1.00 34.72
ATOM	12918	С	THR				-35.103	31.217	1.00 37.53
ATOM	12919	0	THR				-33.928	30.920	1.00 33.51
ATOM	12920	CB	THR				-35.808	31.660	1.00 33.12
ATOM	12921	OG1					-35.864	33.082	1.00 38.35
MOTA	12922	CG2					-34.417	31.248	1.00 34.96
ATOM	12923	N	LEU				-35.530	31.742	1.00 41.41
ATOM	12924	CA	LEU				-34.658	32.027	1.00 42.77
ATOM	12925	С	LEU				-34.462	33.512	1.00 46.46
ATOM	12926	0	LEU				-35.142	34.330	1.00 48.63
MOTA	12927	CB	LEU				-35.253	31.455	1.00 39.59
ATOM	12928	CG	LEU				-35.473	29.939	1.00 39.71
ATOM	12929	CD1	LEU				-35.690	29.398	1.00 35.80
ATOM	12930	CD2	LEU				-34.274	29.289	1.00 41.05
ATOM	12931	N	SER				-33.517	33.850	1.00 49.53
ATOM	12932	CA	SER				-33.228	35.244	1.00 54.70
MOTA	12933	С	SER				-34.197	35.623	1.00 56.51
ATOM	12934	0	SER				-34.389	34.840	1.00 57.09
MOTA	12935	CB	SER				-31.792	35.393	1.00 56.44
MOTA	12936	OG	SER				-31.612	34.705	1.00 57.58
ATOM	12937	N	LYS				-34.806	36.804	1.00 55.58
ATOM	12938	CA	LYS				-35.762	37.232	1.00 54.59
MOTA	12939	С	LYS				-35.310	36.713	1.00 49.02
ATOM	12940	0	LYS				-36.109	36.278	1.00 40.28
MOTA	12941	CB	LYS			13.152	-35.873	38.760	1.00 59.96
ATOM	12942	CG	LYS				-36.934		1.00 61.26
MOTA	12943	CD	LYS				-36.295	39.576	1.00 67.47
MOTA	12944	CE	LYS	Y 1	87	10.333	-36.549	41.000	1.00 66.18
ATOM	12945	NZ	LYS	Y 1	87	10.934	-37.801	41.525	1.00 67.20
ATOM	12946	N	ALA	Y 1	88		-34.002	36.752	1.00 48.94
ATOM	12947	CA	ALA				-33.396	3 <u>6</u> .286	1.00 51.57
ATOM	12948	С	ALA	Y 1	88	10.287	-33.730	34.819	1.00 52.79
ATOM	12949	0	ALA	Y 1	88	9.465	-34.563	34.445	1.00 53.49
MOTA	12950	CB	ALA				-31.886	36.480	1.00 52.92
MOTA	12951	N	ASP	Y 1	89	11.081	-33.073	33.992	1.00 52.70
ATOM	12952	CA	ASP				-33.279	32.571	1.00 52.12
MOTA	12953	С	ASP	Y 1	89	10.866	-34.745	32.249	1.00 52.04
ATOM	12954	0	ASP	Y 1	89	10.052	-35.124	31.413	1.00 49.44
MOTA	12955	CB	ASP				-32.715	31.914	1.00 57.08
MOTA	12956	CG	ASP	Y 1	89		-31.242	31.619	1.00 64.37
MOTA	12957		ASP	Y 1	89		-30.458	32.571	1.00 68.10
MOTA	12958	OD2	ASP	Y 1	89		-30.858	30.438	1.00 71.32

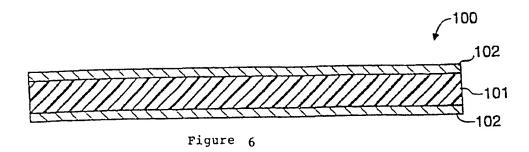
ATOM	12959	N	TYR Y	190	11.641 -35.582	32.925	1.00	53.62
ATOM	12960	CA	TYR Y		11.581 -37.007	32.635	1.00	54.59
ATOM	12961	C	TYR Y		10.177 -37.536	32.861		56.84
ATOM	12962	0	TYR Y		9.569 -38.093	31.944		56.19
					12.598 -37.786	33.473		52.10
MOTA	12963	CB	TYR Y					
MOTA	12964	CG	TYR Y		12.572 -39.255	33.189		44.24
MOTA	12965	CD1			12.714 -39.710	31.906		41.14
MOTA	12966	CD2			12.386 -40.183	34.205	1.00	40.15
MOTA	12967	CEl	TYR Y	190	12.674 -41.050	31.624	1.00	42.12
MOTA	12968	CE2	TYR Y	190	12.343 -41.527	33.940	1.00	39.51
ATOM	12969	CZ	TYR Y		12.490 -41.962	32.642	1.00	40.49
MOTA	12970	ОН	TYR Y		12.468 -43.311	32.352		40.04
ATOM	12971	N	GLU Y		9.659 -37.341	34.076		59.44
ATOM	12972	CA	GLU Y		8.313 -37.787	34.428		59.57
	12973				7.278 -37.134	33.503		58.45
ATOM		С	GLU Y					
MOTA	12974	0	GLU Y		6.139 -37.582	33.416		55.26
MOTA	12975	CB	GLU Y		8.022 -37.442	35.894		62.77
ATOM	12976	CG	GLU Y		8.121 -38.628	36.844		66.79
ATOM	12977	CD	GLU Y		8.535 -38.235	38.259		68.27
MOTA	12978	OEl	GLU Y	191	9.466 -38.870	38.786	1.00	72.45
ATOM	12979	OE2	GLU Y	191	7.943 -37.306	38.853	1.00	66.63
MOTA	12980	N	LYS Y	192	7.707 -36.097	32.787	1.00	58.52
MOTA	12981	CA	LYS Y		6.847 -35.367	31.868	1.00	57.96
ATOM	12982	С		192	6.617 -36.052	30.522	1.00	57.08
ATOM	12983	Ō	LYS Y		5.694 -35.680	29.804		57.21
ATOM	12984	СВ	LYS Y		7.423 -33.967	31.617		62.95
ATOM	12985	CG		192	8.112 -33.779	30.248		65.39
	12986	CD		192	8.808 -32.413	30.121		66.57
MOTA								
ATOM	12987	CE	LYS Y		10.131 -32.502	29.375		63.76
MOTA	12988	NZ		192	10.232 -31.570	28.216		61.69
ATOM	12989	N		193	7.432 -37.047	30.169		54.83
ATOM	12990	CA	HIS Y		7.256 -37.706	28.870		49.58
MOTA	12991	С	HIS Y	193	7.066 -39.217	28.828		45.97
ATOM	12 9 92	0	HIS Y	193	7.276 -39.922	29.805		45.70
ATOM	12993	CB	HIS Y	193	8.399 -37.305	27.962		49.56
MOTA	12994	CG	HIS Y	193	8.348 -35.869	27.572	1.00	48.39
MOTA	12995	ND1	HIS Y	193	7.243 -35.308	26.978	1.00	49.44
ATOM	12996	CD2	HIS Y	193	9.246 -34.870	27.716	1.00	50.10
ATOM	12997			193	7.462 -34.025	26.764	1.00	51.50
ATOM	12998	NE2	HIS Y		8.673 -33.735	27.203		49.79
MOTA	12999	N	LYS Y		6.672 -39.723	27.673		41.33
ATOM	13000	CA	LYS Y		6.431 -41.145	27.554		41.87
ATOM	13000	C		194	7.556 -41.971	26.990		41.10
				194				40.44
ATOM	13002	0			8.063 -42.872	27.664		
ATOM	13003	CB	LYS Y		5.200 -41.392	26.699		48.88
ATOM	13004	CG	LYS Y		4.929 -42.869	26.397		52.34
MOTA	13005	CD	LYS Y		3.815 -43.411	27.259		57.24
ATOM	13006	CE	LYS Y	194	3.938 -42.929	28.721		63.37
ATOM	13007	NZ	LYS Y	194	3.109 -41.715	29.044	1.00	60.63
ATOM	13008	N	VAL Y	195	7.925 -41.681	25.741	1.00	39.11
ATOM	13009	CA	VAL Y	195	8.976 -42.427	25.068	1.00	36.48
ATOM	13010	С	VAL Y	195	10.298 -41.692	24.851	1.00	36.65
ATOM	13011	0	VAL Y		10.360 -40.607	24.275		34.63
ATOM	13012	СВ	VAL Y		8.489 -42.963	23.726		32.32
ATOM	13013		VAL Y		7.017 -42.846	23.659		28.77
ATOM	13013		VAL Y		9.123 -42.196	22.588		36.10
MOTA	13014	N N	TYR Y		11.354 -42.321	25.351		37.57
						25.239		36.79
ATOM	13016	CA	TYR Y		12.705 ~41.833			
ATOM	13017	C -	TYR Y		13.402 -42.782	24.254		36.45
MOTA	13018	0	TYR Y	тар	13.311 -44.018	24.389	1.00	33.57

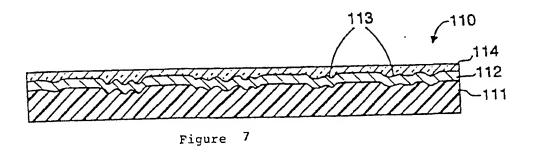
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ATOM	13019	CB	TYR Y		13.362 -41.871	26.623		35.85
ATOM	13020	CG	TYR Y	196	12.790 -40.822	27.528	1.00	38.55
ATOM	13021	CD1	TYR Y	196	13.358 -39.552	27.596	1.00	43.72
ATOM	13022	CD2	TYR Y		11.653 -41.072	28.275		38.26
ATOM	13023	CEl	TYR Y	196	12.803 -38.544	28.391		46.23
MOTA	13024	CE2	TYR Y	196	11.092 -40.081	29.067	1.00	42.14
ATOM	13025	CZ	TYR Y	196	11.677 -38.813	29.122	1.00	45.17
ATOM	13026	ОН	TYR Y	196	11.169 -37.818	29.929		47.16
ATOM	13027	N	ALA Y					
					14.103 -42.213	23.269		35.87
MOTA	13028	CA	ALA Y		14.800 -43.045	22.292	1.00	33.61
ATOM	13029	С	ALA Y	197	16.117 -42.476	21.748	1.00	34.16
ATOM	13030	0	ALA Y	197	16.165 -41.326	21.266	7.00	31.93
ATOM	13031	CB	ALA Y		13.884 -43.367			27.65
						21.134		
MOTA	13032	N	CYS Y		17.181 -43.294	21.839		30.38
MOTA	13033	CA	CYS Y	198	18.485 -42.940	21.276	1.00	25.41
MOTA	13034	С	CYS Y	198	18.545 -43.700	19.925		23.04
ATOM	13035	ō	CYS Y		18.304 -44.901	19.846	1.00	
ATOM	13036	CB	CYS Y		19.648 -43.339	22.205		22.91
ATOM	13037	SG	CYS Y	198	20.312 -44.982	21.867	1.00	23.09
ATOM	13038	N	GLU Y	199	18.799 -42.956	18.858	1.00	25.75
ATOM	13039	CA	GLU Y		18.881 -43.488	17.501		26.51
ATOM	13040	С	GLU Y		20.340 -43.359	16.988		22.04
MOTA	13041	0	GLU Y	199	20.875 -42.251	16.883	1.00	19.00
ATOM	13042	CB	GLU Y	199	17.909 -42.688	16.612	1.00	33.32
ATOM	13043	CG	GLU Y	199	17.857 -43.075	15.131	1 00	44.37
ATOM	13044	CD	GLU Y		17.378 -41.917			53.46
						14.229		
MOTA	13045	OE1	GLU Y		17.501 -40.740	14.653		57.39
MOTA	13046	OE2	GLU Y	199	16.881 -42.181	13.098	1.00	54.87
ATOM	13047	N	VAL Y	200	20.961 -44.492	16.659	1.00	17.52
ATOM	13048	CA	VAL Y		22.337 -44.510	16.159	1.00	
ATOM	13049	C	VAL Y					
					22.517 -44.850	14.668	1.00	9.75
ATOM	13050	0	VAL Y		21.916 -45.769	14.133	1.00	4.14
MOTA	13051	CB	VAL Y	200	23.231 -45.487	16.974	1.00	16.94
MOTA	13052	CG1	VAL Y	200	22.394 -46.502	17.723	1.00	17.73
ATOM	13053		VAL Y		24.179 -46.188	16.053	1.00	
ATOM	13054	N	THR Y		23.393 -44.103	14.014	1.00	
ATOM	13055	CA	THR Y		23.712 -44.304	12.600	1.00	14.36
ATOM	13056	С	THR Y	201	25.163 -44.729	12.546	1.00	8.97
MOTA	13057	0	THR Y	201	25.992 -44.169	13.257	1.00	2.21
ATOM	13058	СВ	THR Y		23.585 -43.024	11.841	1.00	
ATOM	13059	OG1						
			THR Y		22.988 -42.049	12.710	1.00	
ATOM	13060	CG2	THR Y		22.725 -43.239	10.581		23.84
ATOM	13061	N	HIS Y	202	25.467 -45.724	11.720	1.00	8.28
MOTA	13062	CA	HIS Y	202	26.831 -46.219	11.611	1.00	13.21
ATOM	13063	С	HIS Y		27.054 -47.251	10.484		12.30
ATOM	13064	0						
			HIS Y		26.304 -48.202	10.299		15.12
MOTA	13065	CB	HIS Y		27.285 -46.765	12.976		10.32
MOTA	13066	CG	HIS Y		28.627 -47.437	12.957	1.00	20.20
MOTA	13067	ND1	HIS Y	202	28.923 -48.488	12.108		18.03
MOTA	13068		HIS Y		29.717 -47.276	13.747		19.90
ATOM								
	13069		HIS Y		30.133 -48.949	12.383		20.52
ATOM	13070	NE2	HIS Y		30.634 -48.226	13.370		24.29
ATOM	13071	N	GLN Y	203	28.110 -47.027	9.723	1.00	12.46
ATOM	13072	CA	GLN Y		28.484 -47.877	8.611		10.38
ATOM	13073	C	GLN Y		28.070 -49.348	8.735	1.00	9.49
ATOM	13073	Õ						
			GLN Y		27.549 -49.934	7.786		10.67
MOTA	13075	CB	GLN Y	203	29.991 -47.775	8.449		12.56
ATOM	13076	CG	GLN Y		30.513 -48.026	7.064	1.00	18.88
MOTA	13077	CD	GLN Y	203	32.009 -48.059	7.077		21.97
ATOM	13078		GLN Y	203	32.633 -49.089	6.753		30.04
								20.07

MOTA	13079	NE2	GLN :	Y	203					16.940		7.494		11.32
MOTA	13080	И	GLY :	Y	204					19.948		884	1.00	6.42
MOTA	13081	CA	GLY :							31.343		0.105	1.00	8.82
MOTA	13082	C	GLY :							51.561		9.838	1.00	8.21
MOTA	13083	0	GLY '							2.323		3.972		17.24
MOTA	13084	N	LEU '							0.874		0.608		10.57
MOTA	13085	CA	LEU '							50.900		0.512	1.00	7.13
MOTA	13086	С	LEU .							50.682		9.087	1.00	6.60
MOTA	13087	0	LEU .							19.660		3.461	1.00	5.43
MOTA	13088	СВ	LEU							19.795		1.414	1.00	2.91
MOTA	13089	CG	LEU							50.205		2.877	1.00	9.15
ATOM	13090	CD1								51.024		3.348	1.00	2.74 11.84
MOTA	13091	CD2	LEU							18.982		3.737 8.558	1.00	3.98
MOTA	13092	N	SER							51.635		7.239	1.00	6.19
ATOM	13093	CA	SER							51.413		7.287	1.00	9.57
ATOM	13094	С	SER							19.573		6.269		12.99
MOTA	13095	0	SER							52.575		6.802		13.50
MOTA	13096	CB	SER		206					52.148		5.823		19.49
ATOM	13097	OG N	SER SER							49.770		B.471		18.05
ATOM	13098 13099	N CA	SER							48.591		8.589		19.72
ATOM ATOM	13100	C	SER							48.219		0.040		19.22
ATOM	13100	Ö	SER							49.072		0.908		24.05
ATOM	13102	СВ	SER			_				48.895		7.993		24.51
ATOM	13102	OG	SER							50.207		7.442		32.25
ATOM	13104	N	PRO							46.955		0.325		18.21
ATOM	13105	CA	PRO			_				46.441		1.695	1.00	12.89
ATOM	13106	С	PRO			:	18.	821	1	47.282	1	2.616	1.00	10.05
ATOM	13107	0	PRO							47.466	1	2.438	1.00	13.57
MOTA	13108	CB	PRO	Y	208	:	19.	115	-	45.029		1.501	1.00	9.34
ATOM	13109	CG	PRO	Y	208	;	19.	617		44.619	1	0.190	1.00	
MOTA	13110	CD	PRO	Y	208					45.910		9.328	1.00	
MOTA	13111	N	VAL							47.842		3.582	1.00	
MOTA	13112	CA	VAL							48.678		4.597	1.00	
MOTA	13113	C	VAL							47.735		5.661	1.00	
MOTA	13114	0	VAL							46.917		6.148	1.00	
ATOM	13115	CB	VAL							49.576		5.182	1.00	
MOTA	13116	CG1								50.106		6.577	1.00	
ATOM	13117	CG2								50.697		4.183	1.00	20.90
ATOM	13118	N	THR							47.814 46.952		6.008 7.065		23.22
MOTA	13119	CA	THR THR							47.840		8.259		24.06
ATOM ATOM	13120 13121	С О	THR							49.010		8.105		27.90
ATOM	13121	CB			210					46.311		6.703		23.43
ATOM	13123		THR	-						45.397				28.76
ATOM	13124		THR							45.552		7.866		19.16
ATOM	13125	N	LYS							47.304		9.448		26.78
ATOM	13126	CA	LYS							48.094		0.640		32.83
ATOM	13127	C	LYS							47.200		1.615		36.63
ATOM	13128	0	LYS							46.217		2.158		36.15
ATOM	13129	.CB	LYS							48.588	2	1.251	1.00	34.69
ATOM	13130	CG	LYS				17.	541	_	49.919	2	2.022	1.00	36.53
MOTA	13131	CD	LYS							51.139	2	1.099		33.46
ATOM	13132	CE			211					52.403	2	1.861	1.00	36.99
MOTA	13133	NZ			211					53.016		2.777		36.92
ATOM	13134	N			212					47.556		1.835		37.98
ATOM	13135	CA			212					46.769		2.697		34.69
ATOM	13136	С			212					47.570		3.783		32.49
ATOM	13137	0,			212					48.791		3.787		31.78
MOTA	13138	CB	SER	Y	212		12.	.330	- (46.181	2	1.878	1.00	34.36

MOTA MOTA MOTA	13139 13140 13141	OG N CA	SER Y PHE Y PHE Y	213 213	12.185 11.461	-47.165 -46.849 -47.449	20.965 24.693 25.799	1.00 35.94 1.00 35.85 1.00 39.25
ATOM ATOM	13142 13143	C 0	PHE Y			-46.396 -45.221	26.295 25.978	1.00 42.41
ATOM	13143	СВ	PHE Y			-47.875	26.916	1.00 36.84
ATOM	13145	CG	PHE Y		12.859	-46.753	27.782	1.00 38.88
ATOM	13146	CD1	PHE Y		14.065	-46.133	27.554	1.00 43.16
MOTA	13147	CD2	PHE Y	213	12.073	-46.302	28.823	1.00 40.65
ATOM	13148	CE1	PHE Y	213	14.482	-45.073	28.361	1.00 45.16
ATOM	13149	CE2	PHE Y	213	12.483	-45.240	29.629	1.00 41.62
MOTA	13150	CZ	PHE Y		13.686	-44.628	29.396	1.00 43.73
MOTA	13151	N	ASN Y		9.481	-46.819	27.047	1.00 47.88
MOTA	13152	CA	ASN Y		8.502	-45.887	27.599	1.00 50.10
MOTA	13153	С	ASN Y		8.520	-46.014	29.112	1.00 49.66
MOTA.	13154	0	ASN Y		8.677		29.644	1.00 48.79
MOTA	13155	CB	ASN Y			-46.218	27.058	1.00 56.26
MOTA	13156	CG	ASN Y			-46.151	25.550	1.00 65.31
ATOM	13157	OD1	ASN Y			-46.836	24.849	1.00 68.52
MOTA	13158	ND2	ASN Y				25.032	1.00 69.96
MOTA	13159	N	ARG Y			-44.892	29.808	1.00 50.44
ATOM	13160	CA	ARG Y		8.392	-44.926	31.266	1.00 55.35
MOTA	13161	C	ARG Y			-45.941	31.795	1.00 58.16
ATOM	13162	0	ARG Y			-46.091	31.151 31.840	1.00 60.08 1.00 53.17
MOTA	13163	CB	ARG Y		8.078	-43.551 -42.423	30.961	1.00 58.17
MOTA	13164 13165	CG	ARG Y			-42.423	31.780	1.00 58.19
ATOM ATOM	13166	CD NE	ARG I			-40.641	32.226	1.00 03.07
ATOM	13167	CZ	ARG Y			-40.947	33.392	1.00 76.24
ATOM	13168	NH1	ARG Y			-41.778	34.217	1.00 76.27
ATOM	13169	NH2	ARG Y			-40.447	33.720	1.00 80.05
ATOM	13170	OT	ARG Y			-46.577	32.840	1.00 58.63
ATOM	13171	ZN	MZN Z	498	48.012		20.838	1.00 39.88
ATOM	13172	ZN	MZN Z	499	107.628		20.843	1.00 38.30
ATOM	13173	ZN	MZN Z			-34.600	20.840	1.00 38.46
END	•							







CD154 amino acid sequence

MIETYNQTSPRSAATGLPISMKIFMYLLTVFLITQMIGSALFAVYLHRRLDKIEDERNLH
EDFVFMKTIQRCNTGERSLSLLNCEEIKSQFEGFVKDIMLNKEETKKENS FEMQK [
GDQNPQIAAHVISEASSKTTSVLQWAEKGYYTMSNNLVTLENGKQLTVKRQGLYYIYAQVTFCSN
REASSQAPFIASLCLKSPGRFERILLRAANTHSSAKPCGQQSIHLGGVFELQPGASVFVN
VTDPSQVSHGTGFTSFGLLKL]

hu5c8 heavy chain amino acid sequence

[QVQLVQSGAE VVKPGASVKL SCKASGYIFT SYYMYWVKQA PGQGLEWIGE INPSNGDTNF NEKFKSKATL TVDKSASTAY MELSSLRSED TAVYYCTRSD GRNDMDSWGQ GTLVTVSSAS TKGPSVFPLA PSSKSTSGGT AALGCLVKDY FPEPVTVSWN SGALTSGVHT FPAVLQSSGL YSLSSVVTVP SSSLGTQTYI CNVNHKPSNT KVDKKVEPK] S CDKTHTCPPC PAPELLGGPS VFLFPPKPKD TLMISRTPEV TCVVVDVSHE DPEVKFNWYV DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY TLPPSRDELT KNQVSLTCLV KGFYPSDIAV EWESNGQPEN NYKTTPPVLD SDGSFFLYSK LTVDKSRWQQ GNVFSCSVMH EALHNHYTQK SLSLSPGK

hu5c8 light chain amino acid sequence

[DIVLTQSPAT LSVSPGERAT ISCRASQRVS SSTYSYMHWY QQKPGQPPKL LIKYASNLES GVPARFSGSG SGTDFTLTIS SVEPEDFATY YCQHSWEIPP TFGGGTKLEI KRTVAAPSVF IFPPSDEQLK SGTASVVCLL NNFYPREAKV QWKVDNALQS GNSQESVTEQ DSKDSTYSLS STLTLSKADY EKHKVYACEV THQGLSSPVT KSFNR]GEC

Figure 8

Figure 9

REMARK r= 0.283571 free r= 0.368927

```
ATOM
          1 CB ASP
                           67.265 -16.871 24.434 1.00 35.97
 MOTA
          2 CG ASP
                           67.001 -16.736 22.939 1.00 35.97
 ATOM
          3 OD1 ASP
                           67.966 - 16.903 22.162 1.00 35.97
 ATOM
                           65.836 -16.467 22.544 1.00 35.97
          4 OD2 ASP
 ATOM
          5 C ASP
                          68.828 -16.530 26.333 1.00 21.62
 ATOM
          6 O ASP
                          69.123 -17.548 26.999 1.00 35.97
                      1
 ATOM
          7 HT1 ASP
                           70.366 -17.799 24.965 1.00 0.00
 MOTA
          8 HT2 ASP
                           70.208 -17.109 23.434 1.00 0.00
                       1
 ATOM
          9 N ASP
                          69.686 -17.527 24.225 1.00 21.62
 ATOM
         10 HT3 ASP
                           69.178 - 18.374 23.901 1.00 0.00
 MOTA
         11 CA ASP
                       1
                           68.719 -16.544 24.815 1.00 21.62
 MOTA
         12 N ILE
                     2
                         68.640 -15.337 26.872 1.00 34.35
 MOTA
         13 H ILE
                     2
                         68.470 -14.571 26.287 1.00 0.00
 ATOM
         14 CA ILE
                          68.688 -15.147 28.303 1.00 34.35
 MOTA
         15 CB ILE
                          69.432 - 13.859 28.674 1.00 2.00
                                                          L
 ATOM
         16 CG2 ILE
                      2
                          69.802 - 13.898 30.131 1.00 2.00
 MOTA
         17 CG1 ILE
                           70.650 -13.712 27.786 1.00 2.00
 MOTA
         18 CD1 ILE
                          71.909 -14.034 28.432 1.00 2.00
 ATOM
         19 C ILE
                     2
                         67.228 -15.073 28.668 1.00 34.35
 MOTA
         20 O ILE
                     2
                         66.382 -14.565 27.938 1.00 2.00
         21 N VAL
 ATOM
                          66.902 -15.565 29.822 1.00 11,28
                                                           L
MOTA
         22 H VAL
                          67.580 -15.866 30.438 1.00 0.00
         23 CA VAL
ATOM
                      3
                         65.497 -15.577 30.119 1.00 11.28
MOTA
         24 CB VAL
                      3
                          65.043 -17.007 30.550 1.00 25.11
MOTA
         25 CG1 VAL
                      3
                           63.919 -16.926 31.576 1.00 25.11
ATOM
         26 CG2 VAL
                           64.589 -17.800 29.322 1.00 25.11
                       3
         27 C VAL
MOTA
                          65.225 -14.549 31.179 1.00 11.28
                                                           L
MOTA
         28 O VAL
                          65.790 -14.624 32.248 1.00 25.11
                                                           L
MOTA
         29 N LEU
                          64.390 -13.561 30.855 1.00 39.95
ATOM
         30 H LEU
                          64.008 -13.549 29.942 1.00 0.00
ATOM
         31 CA LEU
                          64.034 -12.505 31.801 1.00 39.95
ATOM
         32 CB LEU
                          63.942 -11.131 31.106 1.00 19.20
ATOM
         33 CG LEU
                           65.228 -10.695 30.397 1.00 19.20
ATOM
         34 CD1 LEU
                           65.282 -9.202 30.137 1.00 19.20
MOTA
         35 CD2 LEU
                           66.388 -11.137 31.243 1.00 19.20
ATOM
         36 C LEU
                         62.702 -12.858 32.410 1.00 39.95
ATOM
         37 O LEU
                          61.695 -12.968 31.710 1.00 19.20
ATOM
         38 N THR
                         62.703 -13.043 33.721 1.00 24.01
ATOM
         39 H THR
                          63.524 -12.936 34.203 1.00 0.00
ATOM
         40 CA THR
                          61.473 -13.380 34.419 1.00 24.01
ATOM
         41 CB THR
                          61.696 -14.565 35.355 1.00 27.92
ATOM
         42 OG1 THR
                           61.648 - 15.788 34.603 1.00 27.92
        43 HG1 THR
ATOM
                           61.380 -16.484 35.207 1.00 0.00
ATOM
         44 CG2 THR
                           60.621 -14.590 36.437 1.00 27.92
ATOM
        45 C THR
                         60.933 -12.213 35.243 1.00 24.01
ATOM
        46 O THR
                     5
                          61.601 -11.786 36.150 1.00 27.92
                                                           L
ATOM
        47 N GLN
                          59.743 -11.702 34.913 1.00 28.69
                     6
ATOM
        48 H GLN
                         59.255 -12.074 34.138 1.00 0.00
                     6
ATOM
                          59.156 -10.582 35.677 1.00 28.69
        49 CA GLN
                      6
ATOM
        50 CB GLN
                          58.355 -9.612 34.765 1.00 37.21
                      6
ATOM
        51 CG GLN
                      6
                         59.197 -8.850 33.763 1.00 37.21
ATOM
        52 CD GLN
                      6
                          58.617 -7.500 33.326 1.00 37.21
ATOM
        53 OE1 GLN
                      6
                          59.275 -6.729 32.602 1.00 37.21
```

ATOM	54 NE2 GLN	6	57.398 -7.199 33.758 1.00 37.21	
ATOM				L
	55 HE21 GLN		57.164 -6.264 33.902 1.00 0.00 56.786 -7.946 33.911 1.00 0.00	L
ATOM	56 HE22 GLN	_		.L
ATOM	57 C GLN	6	58.234 -11.121 36.797 1.00 28.69	Ļ
ATOM	58 O GLN	6	57.846 -12.295 36.835 1.00 37.21	L
ATOM	59 N SER	7	57.891 -10.252 37.719 1.00 16.22	. L
ATOM	60 H SER	7_	58.226 -9.329 37.650 1.00 0.00	L.
ATOM	61 CA SER	7	57,037 -10.625 38.812 1.00 16.22	Ļ
ATOM	62 CB SER	7	57.696 -11.691 39.646 1.00 23.67	Ļ
ATOM	63 OG SER	7	57.787 -11.249 40.988 1.00 23.67	L
ATOM	64 HG SER	_7	57.836 -12.011 41.566 1.00 0.00	Ļ
ATOM	65 C SER	7	56.856 -9.372 39.652 1.00 16.22	Ļ
ATOM	66 O SER	7	57.795 -8.613 39.847 1.00 23.67	L
MOTA	67 N PRO	8	55.641 -9.146 40.156 1.00 19.93	L.
ATOM	68 CD PRO	8	55.245 -7.927 40.883 1.00 13.44	Ļ
ATOM	69 CA PRO	8	54.493 -10.028 39.959 1.00 19.93	
ATOM	70 CB PRO	8	53.527 -9.537 41.038 1.00 13.44	L
ATOM	71 CG PRO	8	53.729 -8.055 41.007 1.00 13.44	ĻL
MOTA	72 C PRO	8	53.957 -9.774 38.552 1.00 19.93	L
ATOM	73 O PRO	8	54.459 -8.869 37.883 1.00 13.44	L
ATOM ATOM	74 N ALA 75 H ALA	9	52.949 -10.549 38.127 1.00 19.87 52.617 -11.261 38.713 1.00 0.00	Ļ
ATOM	76 CA ALA	9	52.318 -10.377 36.806 1.00 19.87	L,
ATOM	77 CB ALA	9	51.523 -11.576 36.460 1.00 16.49	L
ATOM	77 CB ALA 78 C ALA	9	51.411 -9.139 36.825 1.00 19.87	_
ATOM	78 C ALA 79 O ALA	9	51.741 -8.110 36.242 1.00 16.49	L
ATOM	80 N THR	10	50.256 -9.228 37.463 0.00 21.97	L
ATOM	81 H THR	10	49.962 -10.068 37.883 1.00 0.00	L
ATOM	82 CA THR	10	49.417 -8.048 37.543 0.00 21.97	L
ATOM	83 CB THR	10	47.940 -8.379 37.441 0.00 27.89	Ĺ
ATOM	84 OG1 THR	10	47.400 -8.549 38.760 0.00 27.89	L
ATOM	85 HG1 THR	10	46.598 -8.036 38.876 1.00 0.00	Ľ
ATOM	86 CG2 THR	10	47.745 -9.654 36.634 0.00 27.89	L
ATOM	87 C THR	10	49.701 -7.623 38.952 1.00 21.97	L
ATOM	88 O THR	10	49.977 -8.484 39.783 1.00 27.89	Ĺ
MOTA	89 N LEU	11	49.685 -6.314 39.215 1.00 43.77	Ĺ
ATOM	90 H LEU	11	49.510 -5.682 38.489 1.00 0.00	L
ATOM	91 CA LEU	11	49.917 -5.756 40.554 1.00 43.77	L
ATOM	92 CB LEU	11	51.370 -5.322 40.716 1.00 11.38	L
ATOM	93 CG LEU	11	52.086 -4.012 40.336 1.00 11.38	L
MOTA	94 CD1 LEU	11	51.166 -2.973 39.863 1.00 11.38	L
MOTA	95 CD2 LEU	11	52.877 -3.513 41.565 1.00 11.38	L
ATOM		11	48.965 -4.585 40.798 1.00 43.77	L
MOTA	97 O LEU	11	48.959 -3.629 40.027 1.00 11.38	L
MOTA	98 N SER	12	48.161 -4.655 41.868 1.00 16.84	L
MOTA	99 H SER	12	48.245 -5.424 42.477 1.00 0.00	L
ATOM	100 CA SER	12	47.173 -3.609 42.151 1.00 16.84	L
ATOM	101 CB SER	12	45.866 -4.216 42.654 1.00 37.94	L
ATOM	102 OG SER	12	44.765 -3.369 42.355 1.00 37.94	L
MOTA	103 HG SER	12	44.697 -3.269 41.397 1.00 0.00	L
MOTA	104 C SER	12	47.610 -2.580 43.139 1.00 16.84	L
MOTA	105 O SER	12	47.965 -2.902 44.240 1.00 37.94	L
MOTA	106 N ALA	13	47.522 -1.330 42.741 1.00 9.81	L
MOTA	107 H ALA	13	47.175 -1.143 41.843 1.00 0.00	Ŀ.
MOTA	108 CA ALA	13	47.918 -0.223 43.574 1.00 9.81	Ļ
ATOM	109 CB ALA	13	49.423 0.100 43.287 1.00 15.19	L

```
ATOM 110 C ALA
                          47.026 1.021 43.308 1.00 9.81
                    13
 ATOM
        111 O ALA
                          46.655 1.305 42.179 1.00 15.19
                     13
        112 N SER
 ATOM
                          46.688 1.782 44.329 1.00 27.70
                     14
 ATOM
        113 H SER
                          46.977 1.562 45.233 1.00 0.00
                    14
 MOTA
        114 CA SER
                    14
                          45.883 2.989 44.076 1.00 27.70
        115 CB SER 14
116 OG SER 14
                           44.920 3.254 45.221 1.00 28.80
 ATOM
                          45.639 3.324 46.440 1.00 28.80
 ATOM
       117 HG SER 14
 ATOM
                          45.193 3.946 47.016 1.00 0.00
       118 C SER 14
 ATOM
                          46.895 4.117 44.007 1.00 27.70
 MOTA
                          48.050 3.949 44.436 1.00 28.80
        119 O SER
                    14
        120 N PRO 15
 MOTA
                          46.493 5.285 43.495 1.00 21.62
 ATOM
        121 CD PRO 15
                          45.188 5.732 43.026 1.00 11.41
 ATOM
        122 CA PRO 15
                           47.476 6.370 43.420 1.00 21.62
 ATOM 123 CB PRO 15
                           46.659 7.571 42.931 1.00 11.41
       124 CG PRO 15
 ATOM
                          45.546 7.015 42.274 1.00 11.41
 ATOM 125 C PRO 15
                          48.132 6.650 44.768 1.00 21.62
 ATOM 126 O PRO 15
                          47.615 6.255 45.849 1.00 11.41
       127 N GLY
 MOTA
                   16
                          49.265 7.339 44.702 1.00 24.66
       128 H GLY 16
 ATOM
                          49.604 7.599 43.821 1.00 0.00
 ATOM
        129 CA GLY 16
                          49.989 7.696 45.907 1.00 24.66
       130 C GLY 16
 ATOM
                          50.811 6.544 46.405 1.00 24.66
 ATOM
       131 O GLY
                          51.962 6.743 46.742 1.00 48.13
                   16
 ATOM
        132 N GLU 17
                          50.257 5.342 46.423 0.00 20.00
                         49.337 5.214 46.111 1.00 0.00
 ATOM
       133 H GLU 17
 MOTA
       134 CA GLU 17
                          51.020 4.203 46.900 0.00 20.00
 ATOM
       135 CB GLU 17
                          50.258 2.900 46.635 0.00 20.00
        136 CG GLU 17
 MOTA
                          49.372 2.444 47.786 0.00 20.00
ATOM
        137 CD GLU 17
                          47.999 3.105 47.762 0.00 20.00
ATOM
        138 OE1 GLU
                          47.027 2.498 48.279 0.00 20.00
                    17
ATOM
        139 OE2 GLU 17
                          47.896 4.232 47.223 0.00 20.00
MOTA
        140 C GLU 17
                         52.375 4.138 46.209 0.00 20.00
ATOM
        141 O GLU 17
                         52.683 4.923 45.308 0.00 20.00
ATOM
        142 N ARG
                    18 53.190 3.199 46.659 0.00 20.00
MOTA
        143 H ARG 18
                         52.905 2.642 47.412 1.00 0.00
MOTA
        144 CA ARG
                        54.486 2.986 46.056 0.00 20.00
                    18
ATOM
        145 CB ARG
                        55.522 2.595 47.110 0.00 20.00
                    18
ATOM
       146 CG ARG
                         56.956 2.602 46.597 0.00 20.00
                    18
MOTA
       147 CD ARG
                         57.826 3.568 47.402 0.00 20.00
                    18
ATOM
       148 NE ARG
                          59.195 3.082 47.582 0.00 20.00
                    18
ATOM
       149 HE ARG
                          59.307 2.153 47.880 1.00 0.00
                    18
ATOM
       150 CZ ARG
                    18
                          60.283 3.819 47.370 0.00 20.00
       151 NH1 ARG 18
ATOM
                          60.165 5.079 46.972 0.00 20.00
ATOM
       152 HH11 ARG 18
                           60.955 5.580 46.616 1.00 0.00
                          59.297 5.562 47.111 1.00 0.00
MOTA
       153 HH12 ARG 18
       154 NH2 ARG 18
                          61.490 3.302 47.553 0.00 20.00
MOTA
                          61.676 2.350 47.306 1.00 0.00
62.090 3.769 48.205 1.00 0.00
ATOM
       155 HH21 ARG
                    18
ATOM
       156 HH22 ARG 18
ATOM
       157 C ARG 18
                         54.235 1.819 45.119 0.00 20.00
       158 O ARG
ATOM
                   18
                         53.269 1.078 45.279 0.00 20.00
                        55.091 1.661 44.130 1.00 36.57
55.835 2.278 44.023 1.00 0.00
MOTA
       159 N ALA
                   19
MOTA
       160 H ALA
                   19
MOTA
       161 CA ALA 19
                        54.938 0.562 43.200 1.00 36.57
       162 CB ALA 19
                        54.232 1.012 41.948 1.00 26.11
ATOM
MOTA
       163 C ALA 19
                        56.315 0.077 42.860 1.00 36.57
       164 O ALA 19
ATOM
                        57.195 0.839 42.448 1.00 26.11
       165 N THR 20
ATOM
                       56.523 -1.200 43.071 1.00 27.09
```

ATOM	400 U TUD 20	FF 007 4 770 40 444 4 00 0 00	
ATOM	166 H THR 20	55.827 -1.770 43.444 1.00 0.00	L
ATOM	167 CA THR 20	57.801 -1.772 42.736 1.00 27.09	L
ATOM	168 CB THR 20	58.748 -1.830 43.956 1.00 17.74	L
ATOM	169 OG1 THR 20	58.604 -3.080 44.627 1.00 17.74	Ŀ
ATOM	170 HG1 THR 20	59.103 -3.063 45.440 1.00 0.00	L
ATOM	171 CG2 THR 20	58.410 -0.754 44.908 1.00 17.74	L
ATOM	172 C THR 20	57.555 -3.156 42.157 1.00 27.09	L
ATOM	173 O THR 20	56.875 -4.013 42.766 1.00 17.74	L
ATOM		58.074 -3.307 40.935 1.00 35.27	
			L
ATOM			۱.
MOTA	176 CA ILE 21	58.026 -4.531 40.126 1.00 35.27	L
ATOM	177 CB ILE 21	57.532 -4.248 38.699 1.00 22.35	L
ATOM	178 CG2 ILE 21	57.623 -5.515 37.846 1.00 22.35	L
ATOM	179 CG1 ILE 21	56.103 -3.732 38.734 1.00 22.35	Ē
ATOM			-
		55.848 -2.625 37.732 1.00 22.35	L
ATOM		59.466 -5.037 40.025 1.00 35.27	L
ATOM	182 O ILE 21	60.430 -4.272 40.097 1.00 22.35	L
ATOM	183 N SER 22	59.624 -6.328 39.851 1.00 19.19	L
ATOM	184 H SER 22	58.846 -6.927 39.775 1.00 0.00	L
ATOM	185 CA SER 22	60.968 -6.857 39.774 1.00 19.19	L
ATOM	186 CB SER 22	61.295 -7.576 41.076 1.00 19.79	L
ATOM	187 OG SER 22	60.510 -8.735 41.203 1.00 19.79	L
ATOM	188 HG SER 22	59.603 -8.533 40.959 1.00 0.00	L
ATOM	189 C SER 22	61.251 -7.768 38.572 1.00 19.19	L
ATOM	190 O SER 22	60.415 -8.565 38.155 1.00 19.79	Ĺ
ATOM	191 N CYS 23	62.446 -7.623 38.022 1.00 17.40	Ĺ
ATOM	192 H CYS 23	63.077 -6.978 38.391 1.00 0.00	L
ATOM	193 CA CYS 23	62.855 -8.391 36.859 1.00 17.40	L
ATOM	194 C CYS 23	64.023 -9.275 37.223 1.00 17.40	L
ATOM	195 O CYS 23	64.903 -8.884 37.985 1.00 35.27	L
MOTA	196 CB CYS 23	63.246 -7.469 35.700 1.00 35.27	L
ATOM	197 SG CYS 23	63.639 -8.469 34.249 1.00 35.27	Ĺ
ATOM	198 N ARG 24		_
		64.029 -10.461 36.634 1.00 43.37	L
ATOM	199 H ARG 24	63.333 -10.669 35.973 1.00 0.00	L
MOTA	200 CA ARG 24	65.036 -11.469 36.938 1.00 43.37	L
MOTA	201 CB ARG 24	64.419 -12.445 37.933 1.00 43.84	L
ATOM	202 CG ARG 24	65.140 -12.509 39.197 1.00 43.84	L
ATOM	203 CD ARG 24	66.327 -13.377 38.979 1.00 43.84	Ĺ
ATOM	204 NE ARG 24		
		67.090 -13.556 40.203 1.00 43.84	L
MOTA	205 HE ARG 24	67.976 -13.136 40.261 1.00 0.00	L
ATOM	206 CZ ARG 24	66.662 -14.245 41.255 1.00 43.84	L
ATOM	207 NH1 ARG 24	65.461 -14.829 41.239 1.00 43.84	L
ATOM	208 HH11 ARG 24	65.390 -15.810 41.071 1.00 0.00	L
ATOM	209 HH12 ARG 24	64.685 -14.335 41.646 1.00 0.00	Ĺ
ATOM	210 NH2 ARG 24	67.441 -14.336 42.325 1.00 43.84	
			L
MOTA	211 HH21 ARG 24	67.598 -15.222 42.748 1.00 0.00	L
ATOM	212 HH22 ARG 24	68.037 -13.563 42.572 1.00 0.00	L
ATOM	213 C ARG 24	65.597 -12.243 35.734 1.00 43.37	L
ATOM	214 O ARG 24	64.882 -13.003 35.073 1.00 43.84	Ĺ.
ATOM	215 N ALA 25	66.892 -12.055 35.484 1.00 31.15	Ĺ
ATOM	216 H ALA 25	67.399 -11.454 36.075 1.00 0.00	
			L.
ATOM	217 CA ALA 25	67.609 -12.695 34.360 1.00 31.15	L
ATOM	218 CB ALA 25	68.687 -11.730 33.772 1.00 17.85	L
MOTA	219 C ALA 25	68.286 -13.988 34.745 1.00 31.15	L
ATOM	220 O ALA 25	68.984 -14.040 35.742 1.00 17.85	L
ATOM	221 N SER 26	68.088 -15.018 33.933 1.00 19.32	Ĺ
		10.0.0 00.000 1.00 10.02	-

ATOM	222 H SER 26	67.513 -14.896 33.146 1.00 0.00	L
ATOM	223 CA SER 26		
ATOM		68.698 -16.329 34.154 1.00 19.32	L
		68.228 -17.313 33.085 1.00 23.09	L
ATOM	225 OG SER 26	68.325 -16.750 31.780 1.00 23.09	
ATOM	226 HG SER 26	69.137 -17.043 31.363 1.00 0.00	L
ATOM	227 C SER 26	70.233 -16.249 34.103 1.00 19.32	L
ATOM	228 O SER 26	70.916 -17.062 34.719 1.00 23.09	L
ATOM	229 N GLN 27	70.757 -15.274 33.354 1.00 27.78	L
ATOM	230 H GLN 27	70.146 -14.671 32.878 1.00 0.00	L
ATOM	231 CA GLN 27	72.205 -15.074 33.212 1.00 27.78	L
ATOM	232 CB GLN 27	72.603 -15.311 31.738 1.00 39.22	L
ATOM	233 CG GLN 27	74.029 -14.893 31.364 1.00 39.22	L
ATOM	234 CD GLN 27	74.487 -15.457 30.006 1.00 39.22	L
ATOM	235 OE1 GLN 27	73.846 -16.355 29.429 1.00 39.22	1
ATOM	236 NE2 GLN 27	75.601 -14.922 29.492 1.00 39.22	L
ATOM	237 HE21 GLN 27	76.076 -14.236 30.003 1.00 0.00	L
ATOM	238 HE22 GLN 27	75.890 -15.246 28.614 1.00 0.00	Ĺ
ATOM	239 C GLN 27	72.565 -13.651 33.660 1.00 27.78	L
ATOM	240 O GLN 27	71.690 -12.778 33.759 1.00 39.22	L
ATOM	241 N ARG 28	73.845 -13.419 33.925 0.00 20.00	Ĺ
ATOM	242 H ARG 28	74.480 -14.150 33.815 1.00 0.00	L
ATOM	243 CA ARG 28	74.308 -12.109 34.368 0.00 20.00	L
ATOM	244 CB ARG 28	75.772 -12.191 34.807 0.00 20.00	L
ATOM	245 CG ARG 28	76.107 -11.329 36.012 0.00 20.00	L
ATOM	246 CD ARG 28	76.802 -12.141 37.093 0.00 20.00	L
ATOM	247 NE ARG 28	75.958 -13.221 37.595 0.00 20.00	L
ATOM	248 HE ARG 28	75.078 -13.351 37.182 1.00 0.00	L
ATOM	249 CZ ARG 28	76.305 -14.042 38.580 0.00 20.00	L
ATOM	250 NH1 ARG 28	77.484 -13.909 39.173 0.00 20.00	L
MOTA	251 HH11 ARG 28	77.891 -13.002 39.281 1.00 0.00	L
MOTA	252 HH12 ARG 28		L
MOTA	253 NH2 ARG 28	75.475 -14.998 38.974 0.00 20.00	L
MOTA	254 HH21 ARG 28	75.360 -15.822 38.419 1.00 0.00	L
MOTA	255 HH22 ARG 28	74.951 -14.889 39.819 1.00 0.00	L
ATOM	256 C ARG 28	74.163 -11.051 33.279 0.00 20.00	L
ATOM	257 O ARG 28	74.291 -11.347 32.090 0.00 20.00	L
ATOM	258 N VAL 29	73.895 -9.816 33.693 0.00 20.00	L
ATOM	259 H VAL 29		L
ATOM ATOM	260 CA VAL 29 261 CB VAL 29	73.737 -8.711 32.756 0.00 20.00	L
ATOM		72.250 -8.478 32.407 0.00 20.00	L
ATOM		71.724 -9.633 31.573 0.00 20.00	L
ATOM	263 CG2 VAL 29 264 C VAL 29	71.435 -8.324 33.680 0.00 20.00	L
ATOM		74.309 -7.415 33.325 0.00 20.00	Ļ
ATOM		74.712 -6.526 32.575 0.00 20.00	Ļ
ATOM		74.343 -7.316 34.651 0.00 20.00	L
ATOM	_		L.
ATOM	268 CA SER 30 269 CB SER 30	74.862 -6.126 35.316 0.00 20.00	Ļ
ATOM	270 OG SER 30	76.381 -6.044 35.136 0.00 20.00	Ļ
ATOM	271 HG SER 30	77.013 -7.229 35.591 0.00 20.00	Ļ
ATOM	272 C SER 30	77.938 -7.229 35.331 1.00 0.00 74.197 -4.878 34.740 0.00 20.00	L
ATOM	273 O SER 30	72.986 -4.863 34.518 0.00 20.00	L L
ATOM	274 N SER 31	74.986 -3.835 34.500 0.00 20.00	L
ATOM	275 H SER 31		L
ATOM	276 CA SER 31	74.458 -2.596 33.943 0.00 20.00	L
ATOM	277 CB SER 31	75.492 -1.473 34.079 0.00 20.00	L
			L

ATOM	278	OG SER	31	76.810 -1.992 34.123 0.00 20.00	L
ATOM		HG SER	31	76.846 -2.836 33.668 1.00 0.00	L
ATOM	280		31	74.098 -2.794 32.472 0.00 20.00	L
ATOM	281	O SER	31	74.818 -2.336 31.583 0.00 20.00	Ĺ
ATOM	282		32	72.982 -3.480 32.224 1.00 35.60	L
ATOM					
	283		32	72.457 -3.803 32.981 1.00 0.00	L.
ATOM		CA ALA	32	72.523 -3.743 30.850 1.00 35.60	Ļ
ATOM		CB ALA	32	73.598 -4.574 30.100 1.00 17.68	L
ATOM	286		32	71.104 -4.366 30.612 1.00 35.60	Ļ
ATOM	287		32	70.931 -5.189 29.681 1.00 17.68	L
ATOM	288		33	70.112 -3.960 31.424 1.00 13.04	Ļ
ATOM	289		33	70.325 -3.322 32.127 1.00 0.00	L.
ATOM	290		33	68.699 -4.430 31.321 1.00 13.04	Ĺ
ATOM		CB VAL	33	68.273 -5.298 32.627 1.00 4.00	L
ATOM		CG1 VAL		68.176 -4.356 33.838 1.00 4.00	L
ATOM				66.977 -6.149 32.399 1.00 4.00	L
ATOM	294	C VAL	33	67.978 -3.066 31.281 1.00 13.04	L
ATOM	295	O VAL	33	68.486 -2.096 31.764 1.00 4.00	L
ATOM	296		34	66.799 -2.963 30.717 1.00 30.88	L
ATOM	297		34	66.336 -3.745 30.342 1.00 0.00	L
ATOM		CA HIS	34	66.175 -1.646 30.674 1.00 30.88	L
ATOM		CB HIS	34	66.385 -1.002 29.284 1.00 16.89	L
MOTA	300		34	67.722 -1.310 28.698 1.00 16.89	L
ATOM	301		34	68.152 -2.368 27.969 1.00 16.89	L
ATOM	302		34	68.838 -0.553 28.967 1.00 16.89	L
ATOM	303		34	68.839 0.274 29.480 1.00 0.00	L
ATOM		CE1 HIS	34	69.900 -1.130 28.433 1.00 16.89	L
ATOM		NE2 HIS	34	69.511 -2.234 27.824 1.00 16.89	L
ATOM		HE2 HIS	34	70.100 -2.854 27.332 1.00 0.00	L
ATOM	307		34	64.705 -1.802 30.936 1.00 30.88	L
ATOM	308		34	64.196 -2.924 30.881 1.00 16.89	Ļ
ATOM	309		35	64.014 -0.697 31.219 1.00 16.04	ĻL
ATOM		H TRP	35	64.436 0.161 31.276 1.00 0.00	L.
ATOM	311	CA TRP	35	62.590 -0.770 31.460 1.00 16.04	L
ATOM ATOM		CB TRP	35	62.287 -0.337 32.885 1.00 13.14	Ļ
		CG TRP	35	62.884 -1.212 33.888 1.00 13.14	Ļ
MOTA		CD2 TRP	35	62.278 -2.359 34.503 1.00 13.14	Ļ
ATOM ATOM		CE2 TRP	35	63.187 -2.837 35.470 1.00 13.14	L
ATOM		CD1 TRP	35 35	61.052 -3.026 34.335 1.00 13.14	Ļ
ATOM		NE1 TRP		64.080 -1.051 34.459 1.00 13.14	L
ATOM		HE1 TRP	35	64.284 -2.021 35.417 1.00 13.14 65.086 -2.114 35.985 1.00 0.00	
ATOM		CZ2 TRP	35		Ļ
ATOM		CZ2 TRP	35 35	62.917 -3.968 36.293 1.00 13.14 60.771 -4.158 35.144 1.00 13.14	Ļ
ATOM		CH2 TRP	35	61.710 -4.615 36.116 1.00 13.14	Ļ
ATOM	323	C TRP	35	61.757 0.031 30.470 1.00 16.04	, L
ATOM		O TRP	35 35	62.148 1.113 30.022 1.00 13.14	Ļ
ATOM	325		36	60.605 -0.542 30.125 1.00 26.41	L
ATOM	326		36	60.386 -1.413 30.510 1.00 0.00	L
ATOM	327		36	59.642 0.052 29.217 1.00 26.41	Ĺ
ATOM		CB TYR	36		Ĺ
ATOM		CG TYR	36	60.946 -0.742 27.171 1.00 16.21	Ĺ
ATOM		CD1 TYR	36	61.162 0.070 26.042 1.00 16.21	Ĺ
ATOM	331	CE1 TYR	36	62.376 0.101 25.412 1.00 16.21	·Ľ
ATOM		CD2 TYR	36	62.004 -1.544 27.644 1.00 16.21	Ĺ
ATOM		CE2 TYR	36	63.235 -1.523 27.012 1.00 16.21	Ĺ
			50	UU.LUUUIL LI.UIL 1.00 10.LI	-

ATOM	224 07 700	20	CO 400 0 COO OF OR4 4 TO 40 C4	
	334 CZ TYR	36	63.409 -0.682 25.884 1.00 16.21	L
ATOM	335 OH TYR	36	64.612 -0.613 25.238 1.00 16.21	L
MOTA	336 HH TYR	36	64.764 -1.405 24.737 1.00 0.00	L
ATOM	337 C TYR	36	58.253 -0.006 29.844 1.00 26.41	L
ATOM	338 O TYR	36	57.940 -0.891 30.648 1.00 16.21	L
ATOM	339 N GLN	37	57.411 0.940 29.466 1.00 18.25	Ĺ
ATOM	340 H GLN	37	57.709 1.629 28.845 1.00 0.00	Ĺ
ATOM	341 CA GLN	37		
ATOM	342 CB GLN	37		Ļ
				L
ATOM	343 CG GLN	37	54.362 2.680 30.788 1.00 6.97	L
MOTA	344 CD GLN	37	54.176 4.094 31.163 1.00 6.97	L
ATOM	345 OE1 GLN		54.305 4.983 30.342 1.00 6.97	L
ATOM			53.869 4.324 32.420 1.00 6.97	L
ATOM	347 HE21 GLN	1 37	54.571 4.651 33.032 1.00 0.00	L
MOTA	348 HE22 GLN	37	52.947 4.168 32.704 1.00 0.00	L
ATOM	349 C GLN	37	55.167 1.080 28.757 1.00 18.25	L
ATOM	350 O GLN	37	55.316 1.988 27.981 1.00 6.97	L
ATOM	351 N GLN	38	54.247 0.145 28.602 1.00 29.68	Ĺ
ATOM	352 H GLN	38	54.158 -0.562 29.268 1.00 0.00	L
ATOM	353 CA GLN	38	53.361 0.172 27.452 1.00 29.68	_
ATOM	354 CB GLN	38	53.375 -1.163 26.747 1.00 18.03	Ļ
ATOM	355 CG GLN	38		Ļ
ATOM	356 CD GLN	38	52.962 -1.088 25.309 1.00 18.03	L
ATOM	357 OE1 GLN		52.970 -2.439 24.695 1.00 18.03	L
ATOM	358 NE2 GLN	38	52.752 -3.434 25.375 1.00 18.03	L
		38	53.232 -2.502 23.410 1.00 18.03	L
ATOM	359 HE21 GLN		53.582 -3.348 23.055 1.00 0.00	L
ATOM	360 HE22 GLN		53.067 -1.713 22.857 1.00 0.00	L
ATOM	361 C GLN	38	51.949 0.482 27.864 1.00 29.68	L
ATOM	362 O GLN	38	51.394 -0.184 28.740 1.00 18.03	L
ATOM		39		L
ATOM		39		L
ATOM	365 CA LYS	39	50.007 1.905 27.498 1.00 6.53	L
ATOM	366 CB LYS	39	49.926 3.439 27.571 1.00 31.82	L
ATOM	367 CG LYS	39	50.493 4.105 28.823 1.00 31.82	L
ATOM	368 CD LYS	39	50.071 5.567 28.812 1.00 31.82	L
ATOM	369 CE LYS	39	51.174 6.541 29.278 1.00 31.82	L
ATOM	370 NZ LYS	39	51.459 6.518 30.761 1.00 31.82	L
ATOM	371 HZ1 LYS	39	51.298 5.563 31.112 1.00 0.00	Ĺ
ATOM	372 HZ2 LYS	39	50.865 7.200 31.266 1.00 0.00	Ē
ATOM	373 HZ3 LYS	39	52.475 6.755 30.906 1.00 0.00	Ĺ
ATOM		39	40 457 4 440 00 055 1 55 5 55	L
ATOM		39	40 470 4 700 40 40 4 4 4 4 4 4 4 4 4 4 4	L
ATOM	376 N PRO	40	47.928 1.007 26.638 1.00 21.88	
ATOM	377 CD PRO	40	47.359 0.991 27.985 1.00 23.36	L
ATOM	378 CA PRO	40		Ļ
ATOM	379 CB PRO	40		L
ATOM	380 CG PRO		45.635 0.484 26.355 1.00 23.36	Ļ
ATOM	381 C PRO	40	45.920 1.230 27.675 1.00 23.36	ĻL
ATOM	382 O PRO	40	46.916 1.424 24.449 1.00 21.88	L
ATOM		40 41	46.827 2.626 24.610 1.00 23.36	L
ATOM		41	47.038 0.833 23.269 1.00 29.05	L
ATOM		41		L _.
	385 CA GLY	41	47.031 1.573 22.026 1.00 29.05	L
ATOM		41	48.398 1.840 21.393 1.00 29.05	L
ATOM		41		L
ATOM		42	49.418 2.007 22.232 1.00 38.25	L
ATOM	389 H GLN	42	49.249 1.867 23.188 1.00 0.00 L	L

ATOM	390 CA GLN 42	50.768 2.377 21.812 1.00 38.25	L
ATOM	391 CB GLN 42	51.163 3.541 22.717 1.00 46.42	Ē
ATOM	392 CG GLN 42	49.956 4.353 23.206 1.00 46.42	Ĺ
ATOM	393 CD GLN 42	50.328 5.468 24.201 1.00 46.42	Ļ
ATOM	394 OE1 GLN 42		L
ATOM	395 NE2 GLN 42	51.304 5.191 25.082 1.00 46.42	L
ATOM	396 HE21 GLN 42		L
ATOM	397 HE22 GLN 42	52.234 5.203 24.758 1.00 0.00	L
ATOM	398 C GLN 42	51.945 1.342 21.745 1.00 38.25	L
ATOM	399 O GLN 42	51.820 0.214 22.223 1.00 46.42	L
ATOM	400 N PRO 43	53.089 1.706 21.102 1.00 2.00	L
ATOM	401 CD PRO 43	53.434 2.920 20.357 1.00 22.35	L
ATOM	402 CA PRO 43	54.195 0.768 21.052 1.00 2.00	Ľ
ATOM	403 CB PRO 43	55.050 1.312 19.941 1.00 22.35	L
MOTA	404 CG PRO 43	54.895 2.750 20.107 1.00 22.35	L
ATOM	405 C PRO 43	54.829 1.065 22.355 1.00 2.00	L
ATOM	406 O PRO 43	54.515 2.084 22.954 1.00 22.35	L
ATOM	407 N PRO 44	55.734 0.200 22.818 1.00 20.50	L
ATOM	408 CD PRO 44	56.085 -1.072 22.172 1.00 26.74	L
ATOM	409 CA PRO 44	56,448 0.373 24.102 1.00 20.50	L
ATOM	410 CB PRO 44	57.344 -0.857 24.186 1.00 26.74	Ĺ
ATOM	411 CG PRO 44	56.618 -1.875 23.358 1.00 26.74	L
ATOM	412 C PRO 44	57.208 1.679 24.208 1.00 20.50	L
ATOM	413 O PRO 44	57.538 2.323 23.203 1.00 26.74	Ĺ
ATOM	414 N LYS 45	57.440 2.067 25.452 1.00 21.53	Ļ
ATOM	415 H LYS 45	57.154 1.485 26.181 1.00 0.00	L.
ATOM	416 CA LYS 45	58.119 3.315 25.807 1.00 21.53	L
ATOM	417 CB LYS 45	57.115 4.292 26.393 1.00 26.74	L
ATOM	418 CG LYS 45	57.448 5.752 26.210 1.00 26.74	L
ATOM	419 CD LYS 45	57.361 6.554 27.525 1.00 26.74	L
ATOM	420 CE LYS 45	58.137 7.897 27.406 1.00 26.74	L
ATOM	421 NZ LYS 45	59.553 7.786 26.765 1.00 26.74	L
ATOM	422 HZ1 LYS 45	60.204 8.464 27.193 1.00 0.00	Ĺ
ATOM	423 HZ2 LYS 45	59.460 7.962 25.743 1.00 0.00	ī
ATOM	424 HZ3 LYS 45	59.910 6.812 26.904 1.00 0.00	Ĺ
ATOM	425 C LYS 45	59.219 3.058 26.829 1.00 21.53	L
ATOM	426 O LYS 45		_
			L
MOTA		60.311 3.789 26.697 1.00 26.71	Ļ
ATOM	428 H LEU 46	60.369 4.457 25.981 1.00 0.00	L.
ATOM	429 CA LEU 46	61.417 3.612 27.611 1.00 26.71	L
ATOM	430 CB LEU 46	62.745 3.743 26.871 1.00 21.02	L
ATOM	431 CG LEU 46	63.871 3.508 27.891 1.00 21.02	L
ATOM	432 CD1 LEU 46	64.018 2.021 28.101 1.00 21.02	L
ATOM	433 CD2 LEU 46	65.180 4.165 27.445 1.00 21.02	L
ATOM	434 C LEU 46	61.383 4.602 28.768 1.00 26.71	L
ATOM	435 O LEU 46	61.032 5.768 28.621 1.00 21.02	L
ATOM	436 N LEU 47	61.749 4.114 29.933 1.00 10.23	Ĺ
ATOM	437 H LEU 47	61.987 3.162 30.011 1.00 0.00	Ĺ
ATOM	438 CA LEU 47	61.774 4.969 31.100 1.00 10.23	L
ATOM	439 CB LEU 47		Ĺ
ATOM			
		59.568 3.586 31.757 1.00 20.80	Ļ
ATOM	441 CD1 LEU 47	59.385 2.758 32.978 1.00 20.80	Ļ
ATOM	442 CD2 LEU 47	58.250 4.173 31.358 1.00 20.80	. L
ATOM	443 C LEU 47	63.063 4.741 31.827 1.00 10.23	L.
ATOM	444 O LEU 47	63.611 5.652 32.431 1.00 20.80	L
ATOM	445 N ILE 48	63.556 3.514 31.783 1.00 25.64	L

ATOM	1 446 H ILE 48	63.094 2.790 31.309 1.00 0.00	
ATON			L
		64.794 3.253 32.467 1.00 25.64	L
ATON		64.502 2.528 33.782 1.00 29.39	L
ATOM	1 449 CG2 ILE 48		
ATOM		21.000 20,00	
ATOM		1.00 20.00	
		62.882 3.586 35.317 1.00 29.39	Ł
ATOM		65.764 2.450 31.614 1.00 25.64	L
ATOM	453 O ILE 48	65.387 1.382 31.140 1.00 29.39	L
ATOM	454 N LYS 49	66.981 2.997 31.376 1.00 26.94	Ĺ
ATOM		am 1aa - aaa -	_
ATOM			L
		68.045 2.299 30.612 1.00 26.94	L
ATOM		68.483 3.050 29.365 1.00 19.84	L
ATOM		69.182 4.347 29.623 1.00 19.84	
ATOM	459 CD LYS 49	68.432 5.478 28.916 1.00 19.84	į
ATOM			
ATOM			L
		69.390 6.621 26.837 1.00 19.84	L
ATOM		71010 20.000 1.00 0.00	L
ATOM	463 HZ2 LYS 49	68.909 5.825 26.402 1.00 0.00	L
ATOM	464 HZ3 LYS 49	70.380 6.691 26.494 1.00 0.00	Ĺ
ATOM	465 C LYS 49		
ATOM	466 O LYS 49		L
ATOM		69.625 3.171 32.107 1.00 19.84	L
	467 N TYR 50	69.743 0.950 31.635 1.00 24.65	L
ATOM	468 H TYR 50	69.315 0.234 31.110 1.00 0.00	L
ATOM	469 CA TYR 50	70.892 0.549 32.493 1.00 24.65	L
ATOM	470 CB TYR 50	72.108 1.482 32.370 1.00 11.79	Ĺ
ATOM:	471 CG TYR 50	72.590 1.558 30.957 1.00 11.79	
ATOM	472 CD1 TYR 50		L
ATOM			L
		72.745 2.759 28.892 1.00 11.79	L
ATOM	474 CD2 TYR 50	73.129 0.428 30.323 1.00 11.79	1
ATOM	475 CE2 TYR 50	73.466 0.463 28.991 1.00 11.79	Ĺ
ATOM	476 CZ TYR 50	73.262 1.639 28.292 1.00 11.79	L
ATOM	477 OH TYR 50	73.539 1.703 26.973 1.00 11.79	
ATOM	478 HH TYR 50		L
ATOM			L
		70.560 0.419 33.962 1.00 24.65	L
ATOM	480 O TYR 50	71.171 1.095 34.782 1.00 11.79	L
ATOM	481 N ALA 51	69.605 -0.467 34.270 1.00 21.59	L
ATOM	482 H ALA 51	69.192 -0.973 33.538 1.00 0.00	L
ATOM	483 CA ALA 51	69.156 -0.695 35.627 1.00 21.59	L
ATOM	484 CB ALA 51		
ATOM	485 C ALA 51		L
ATOM		20 10 00 00 1.00 E1.00	L
	· - ·	68.099 0.484 37.372 1.00 13.57	L
ATOM	487 N SER 52	69.070 1.752 35.864 1.00 16.80	L
MOTA	488 H SER 52	69.525 1.887 35.003 1.00 0.00	L
ATOM	489 CA SER 52	68.718 2.906 36.666 1.00 16.80	L
MOTA	490 CB SER 52	00 500	
ATOM	491 OG SER 52		L
ATOM			L
		71.481 2.643 37.471 1.00 0.00	L
MOTA	493 C SER 52	68.821 4.325 36.102 1.00 16.80	L
MOTA	494 O SER 52	68.597 5.288 36.848 1.00 29.24	L
MOTA	495 N. ALA 53	69.183 4.495 34.835 1.00 26.28	L
MOTA	496 H ALA 53	60 257 2 724 24 252 4 22 2 22	_
MOTA	497 CA ALA 53		L.
MOTA	498 CB ALA 53		L
MOTA		70.465 5.981 33.401 1.00 10.76	L
	499 C ALA 53	67.992 6.277 33.718 1.00 26.28	L
MOTA	500 O ALA 53	67.530 5.648 32.761 1.00 10.76	L
MOTA	501 N LEU 54	67.382 7.327 34.281 1.00 18.29	Ĺ
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ATOM	502 H LEU	54	67.803 7.782 35.028 1.00 0.00	L
ATOM	503 CA LEU	54	66.094 7.808 33.796 1.00 18.29	L
ATOM	504 CB LEU	54	65.531 8.839 34.748 1.00 38.41	L
ATOM	505 CG LEU	54	64.429 8.254 35.626 1.00 38.41	L
MOTA	506 CD1 LEU	54	64.797 8.427 37.132 1.00 38.41	L
ATOM	507 CD2 LEU	54	63.094 8.936 35.271 1.00 38.41	L
ATOM		54	66.190 8.406 32.431 1.00 18.29	L
ATOM		54	66.911 9.376 32.233 1.00 38.41	L
ATOM	510 N GLU	55	65.485 7.816 31.476 1.00 26.87	L
ATOM	511 H GLU	55	64.965 7.012 31.672 1.00 0.00	L
MOTA	512 CA GLU	55	65.500 8.354 30.130 1.00 26.87	L
ATOM	513 CB GLU	55	64.773 7.427 29.153 1.00 45.51	L
ATOM	514 CG GLU	55	64.866 7.893 27.672 1.00 45.51	L
ATOM	515 CD GLU	55	66.320 8.077 27.140 1.00 45.51	L
MOTA	516 OE1 GLU	55	66.544 7.912 25.910 1.00 45.51	L
ATOM	517 OE2 GLU	55	67.236 8.395 27.946 1.00 45.51	L
ATOM	518 C GLU	55	64.902 9.763 30.096 1.00 26.87	L
MOTA	519 O GLU	55	63.906 10.090 30.747 1.00 45.51	L
MOTA	520 N SER	56	65.566 10.579 29.311 1.00 15.82	L
ATOM	521 H SER	56	66.319 10.197 28.802 1.00 0.00	L
ATOM	522 CA SER	56	65.271 11.970 29.109 1.00 15.82	L
ATOM	523 CB SER	56	66.140 12.483 27.970 1.00 49.29	L
ATOM	524 OG SER	56	67.213 11.565 27.749 1.00 49.29	L
ATOM	525 HG SER	56	67.612 11.711 26.884 1.00 0.00	L
MOTA	526 C SER	56	63.841 12.329 28.840 1.00 15.82	L
ATOM	527 O SER	56	63.447 12.517 27.681 1.00 49.29	L
ATOM		57	63.070 12.457 29.913 1.00 29.44	L
MOTA		57	63.462 12.295 30.798 1.00 0.00	L.
ATOM	530 CA GLY	57	61.683 12.835 29.768 1.00 29.44	.L
ATOM		57	60.774 12.220 30.802 1.00 29.44	Ļ
MOTA		57 50	59.885 12.881 31.351 1.00 23.51	Ļ
ATOM ATOM		58 58	61.001 10.939 31.061 1.00 32.28	Ļ
ATOM	535 CA VAL	58	61.734 10.482 30.588 1.00 0.00 60.215 10.186 32.038 1.00 32.28	L
ATOM	536 CB VAL	58	60.903 8.843 32.359 1.00 38.51	L
ATOM	537 CG1 VAL	58	60.092 8.057 33.397 1.00 38.51	L
ATOM	538 CG2 VAL	58	61.100 8.052 31.067 1.00 38.51	Ĺ
ATOM		58	59.971 10.921 33.360 1.00 32.28	L
ATOM		58	60.807 11.655 33.877 1.00 38.51	Ĺ
ATOM	541 N PRO	59	58.797 10.736 33.919 1.00 19.68	Ĺ
ATOM	542 CD PRO	59	57.657 9.949 33.434 1.00 27.83	Ĺ
ATOM	543 CA PRO	59	58.523 11.420 35.183 1.00 19.68	ī
ATOM	544 CB PRO	59	57.083 11.049 35.502 1.00 27.83	Ĺ
ATOM	545 CG PRO	59	56.500 10.589 34.161 1.00 27.83	L
ATOM	546 C PRO	59	59.475 10.999 36.276 1.00 19.68	L
ATOM	547 O PRO	59	59.958 9.852 36.310 1.00 27.83	L
ATOM	548 N ALA	60	59.717 11.953 37.169 1.00 20.92	L
ATOM	549 H ALA (60	59.250 12.800 37.068 1.00 0.00	L
ATOM	550 CA ALA	60	60.648 11.804 38.294 1.00 20.92	L
MOTA	551 CB ALA	60	60.714 13.108 39.082 1.00 24.45	L
ATOM		60	60.359 10.655 39.233 1.00 20.92	L
ATOM		60	61.271 9.996 39.699 1.00 24.45	L
ATOM		61	59.083 10.407 39.508 1.00 46.17	L
ATOM		61	58.382 10.958 39.104 1.00 0.00	L
ATOM	556 CA ARG	61	58.707 9.316 40.412 1.00 46.17	L
MOTA	557 CB ARG	61	57.186 9.248 40.547 1.00 16.64	L

ATOM	558 CG ARG 61	FG 207 0 700 00 004 4 00 40 0	
		56.397 9.708 39.334 1.00 16.64	
ATOM		54.893 9.488 39.564 1.00 16.64	
ATOM		54.245 8.832 38.442 1.00 16.64	L
ATOM		54.019 7.883 38.519 1.00 0.00	L
ATOM		53.941 9.443 37.289 1.00 16.64	L
ATOM	563 NH1 ARG 61		
ATOM	564 HH11 ARG 6		
ATOM			
ATOM			
ATOM			
ATOM			
ATOM			
ATOM		59.233 7.935 40.011 1.00 46.17	L
		59.169 6.997 40.816 1.00 16.64	L
ATOM		59.747 7.834 38.777 1.00 31.16	L
ATOM		59.766 8.646 38.215 1.00 0.00	L
ATOM	573 CA PHE 62	60.267 6.579 38.241 1.00 31.16	L
ATOM	574 CB PHE 62	60.077 6.497 36.729 1.00 17.47	L
ATOM	575 CG PHE 62	58.647 6.301 36.315 1.00 17.47	L
ATOM	576 CD1 PHE 62	57.978 5.141 36.660 1.00 17.47	L
ATOM	577 CD2 PHE 62	57.958 7.306 35.649 1.00 17.47	Ĺ
ATOM	578 CE1 PHE 62	56.644 4.965 36.358 1.00 17.47	Ĺ
ATOM	579 CE2 PHE 62	56.631 7.154 35.339 1.00 17.47	Ĺ
ATOM	580 CZ PHE 62	55.965 5.967 35.697 1.00 17.47	L
ATOM	581 C PHE 62	61.715 6.463 38.562 1.00 31.16	_
ATOM	582 O PHE 62	62.473 7.413 38.402 1.00 17.47	Ļ
ATOM	583 N SER 63	62.074 5.273 39.032 1.00 17.47	L
ATOM	584 H SER 63		Ļ
ATOM	585 CA SER 63		L.
ATOM	586 CB SER 63		L
ATOM		63.562 5.084 40.943 1.00 30.44	L
ATOM		62.438 4.457 41.523 1.00 30.44	L
ATOM		62.170 3.700 41.000 1.00 0.00	L
ATOM		63.670 3.502 39.131 1.00 18.75	L
		62.733 2.701 39.097 1.00 30.44	L
ATOM ATOM	591 N GLY 64	64.939 3.178 38.926 1.00 36.70	L
	592 H GLY 64	65.624 3.883 38.971 1.00 0.00	L
ATOM	593 CA GLY 64	65.345 1.815 38.628 1.00 36.70	L
ATOM	594 C GLY 64	66.607 1.458 39.390 1.00 36.70	L
ATOM	595 O GLY 64	67.529 2.264 39.539 1.00 9.84	L
ATOM	596 N SER 65	66.646 0.235 39.887 1.00 22.08	L
ATOM	597 H SER 65	65.888 -0.374 39.729 1.00 0.00	L
MOTA	598 CA SER 65	67.802 -0.235 40.645 1.00 22.08	L
ATOM	599 CB SER 65	67.525 -0.182 42.146 1.00 31.87	L
ATOM	600 OG SER 65	66.354 -0.944 42.454 1.00 31.87	L
ATOM	601 HG SER 65	65.600 -0.586 41.986 1.00 0.00	L
ATOM	602 C SER 65	67.979 -1.671 40.228 1.00 22.08	L
MOTA	603 O SER 65	67.038 -2.306 39.730 1.00 31.87	Ĺ
ATOM	604 N GLY 66	69.170 -2.202 40.434 1.00 30.58	Ĺ
ATOM	605 H GLY 66	69.883 -1.676 40.851 1.00 0.00	L
ATOM	606 CA GLY 66	69.380 -3.565 40.012 1.00 30.58	L
MOTA	607 C GLY 66	70.835 -3.929 39.946 1.00 30.58	
ATOM	608 O GLY 66	71.707 -3.155 39.497 1.00 30.54	L
ATOM	609 N SER 67	71.047 -5.167 40.350 1.00 23.92	L
ATOM	610 H SER 67	70.267 -5.711 40.560 1.00 0.00	Ļ
ATOM	611 CA SER 67	72.362 -5.762 40.516 1.00 23.92	L.
ATOM	612 CB SER 67	72.544 = 020.42.046 4.00.00 0=	Ļ
ATOM	613 OG SER 67	72.544 -6.030 42.016 1.00 28.90	Ļ
	5.5 55 5ER 07	71.327 -6.572 42.574 1.00 28.90	L

ATOM 615 C SER 67 ATOM 616 O SER 67 ATOM 616 O SER 67 ATOM 617 N GLY 68 ATOM 618 H GLY 68 ATOM 619 CA GLY 68 ATOM 620 C GLY 68 ATOM 621 O GLY 68 ATOM 622 N THR 69 ATOM 622 N THR 69 ATOM 625 CB THR 69 ATOM 625 CB THR 69 ATOM 626 CG1 THR 69 ATOM 627 HG1 THR 69 ATOM 628 CG2 THR 69 ATOM 630 O THR 69 ATOM 631 N ASP 70 ATOM 631 N ASP 70 ATOM 632 H ASP 70 ATOM 634 CB ASP 70 ATOM 635 CA SP 70 ATOM 636 OD1 ASP 70 ATOM 637 OD2 ASP 70 ATOM 638 C ASP 70 ATOM 640 N PHE 71 ATOM 641 H PHE 71 ATOM 642 CA PHE 71 ATOM 643 CB PHE 71 ATOM 644 CG PHE 71 ATOM 645 CD1 PHE 71 ATOM 646 CD2 PHE 71 ATOM 647 CE1 PHE 71 ATOM 647 CE1 PHE 71 ATOM 648 CE2 PHE 71 ATOM 650 C PHE 71 ATOM 651 O PHE 71 ATOM 652 C THR 72 ATOM 655 CB THR 72 ATOM 656 CG LEU 73 ATOM 666 CD1 LEU 73 ATOM 667 CD2 LEU 73 ATOM 668 C LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU 73 ATOM 668 CD3 LEU	ATOM	614	HC SEE	5 67	71 460 7 044 42 297 1 00 0 00	1
ATOM 616 O SER 67 ATOM 617 N GLY 68 ATOM 618 H GLY 68 ATOM 619 CA GLY 68 ATOM 620 C GLY 68 ATOM 621 O GLY 68 ATOM 621 O GLY 68 ATOM 622 N THR 69 ATOM 623 H THR 69 ATOM 624 CA THR 69 ATOM 625 CB THR 69 ATOM 626 OG1 THR 69 ATOM 626 OG1 THR 69 ATOM 627 HG1 THR 69 ATOM 628 CG2 THR 69 ATOM 629 C THR 69 ATOM 630 O THR 69 ATOM 631 N ASP 70 ATOM 631 CA ASP 70 ATOM 632 CA ASP 70 ATOM 633 CA ASP 70 ATOM 634 CB ASP 70 ATOM 635 CG ASP 70 ATOM 636 OD1 ASP 70 ATOM 637 OD2 ASP 70 ATOM 638 C ASP 70 ATOM 640 N PHE 71 ATOM 640 C PHE 71 ATOM 641 C PHE 71 ATOM 642 CA PHE 71 ATOM 645 CD1 PHE 71 ATOM 646 CD2 PHE 71 ATOM 647 CE1 PHE 71 ATOM 648 CE2 PHE 71 ATOM 651 O PHE 71 ATOM 654 CA THR 72 ATOM 655 CB THR 72 ATOM 656 CG1 THR 72 ATOM 657 HG1 THR 72 ATOM 658 CG2 THR 72 ATOM 657 CD1 LEU 73 ATOM 666 CD1 LEU 73 ATOM 667 CD2 LEU 73 ATOM 668 C LEU 73 ATOM 667 CD2 LEU 73 ATOM 668 C LEU 73 ATOM 667 CD2 LEU 73 ATOM 668 C LEU 73 ATOM 668 C LEU 73 ATOM 668 C LEU 73 ATOM 668 C LEU 73 ATOM 668 C LEU 73 ATOM 668 C LEU 73 ATOM 668 C LEU 73 ATOM 668 C LEU 73 ATOM 668 C LEU 73 ATOM 668 C LEU 73 ATOM 668 C LEU 73 ATOM 668 C LEU 73 ATOM 668 C LEU 73 ATOM 668 C LEU 73 ATOM 668 C LEU 73 ATOM 668 C LEU 73 ATOM						Ļ
ATOM 617 N GLY 68 ATOM 618 H GLY 68 ATOM 619 CA GLY 68 ATOM 620 C GLY 68 ATOM 621 O GLY 68 ATOM 622 N THR 69 ATOM 623 H THR 69 ATOM 624 CA THR 69 ATOM 625 CB THR 69 ATOM 626 OG1 THR 69 ATOM 627 HG1 THR 69 ATOM 628 CG2 THR 69 ATOM 628 CG2 THR 69 ATOM 630 O THR 69 ATOM 631 N ASP 70 ATOM 631 N ASP 70 ATOM 632 H ASP 70 ATOM 634 CB ASP 70 ATOM 635 CG ASP 70 ATOM 636 OD1 ASP 70 ATOM 636 OD1 ASP 70 ATOM 637 OD2 ASP 70 ATOM 638 C ASP 70 ATOM 640 N PHE 71 ATOM 641 H PHE 71 ATOM 642 CA PHE 71 ATOM 644 CG PHE 71 ATOM 645 CD1 PHE 71 ATOM 646 CD2 PHE 71 ATOM 647 CE1 PHE 71 ATOM 647 CE1 PHE 71 ATOM 648 CE2 PHE 71 ATOM 657 HG1 THR 72 ATOM 658 CG3 THR 72 ATOM 658 CG3 THR 72 ATOM 657 CD2 LEU 73 ATOM 667 CD2 LEU 73 ATOM 667 CD2 LEU 73 ATOM 666 CD1 LEU 73 ATOM 667 CD2 LEU 73 ATOM 668 C LEU 73 ATOM 667 CD2 LEU 73 ATOM 667 CD2 LEU 73 ATOM 667 CD2 LEU 73 ATOM 667 CD2 LEU 73 ATOM 667 CD2 LEU 73 ATOM 668 C LEU 73 ATOM 667 CD2 LEU 73 ATOM 668 C LEU 73 ATOM 668 C LEU 73 ATOM 667 CD2 LEU 73 ATOM 668 C LEU 73 ATOM 667 CD2 LEU 73 ATOM 668 C						L
ATOM 618 H GLY 68 ATOM 619 CA GLY 68 ATOM 620 C GLY 68 ATOM 621 O GLY 68 ATOM 622 N THR 69 ATOM 622 N THR 69 ATOM 624 CA THR 69 ATOM 625 CB THR 69 ATOM 626 CG1 THR 69 ATOM 626 CG1 THR 69 ATOM 627 HG1 THR 69 ATOM 628 CG2 THR 69 ATOM 629 C THR 69 ATOM 630 O THR 69 ATOM 631 N ASP 70 ATOM 632 H ASP 70 ATOM 632 CA ASP 70 ATOM 634 CB ASP 70 ATOM 635 CG ASP 70 ATOM 636 OD1 ASP 70 ATOM 637 OD2 ASP 70 ATOM 638 C ASP 70 ATOM 639 O ASP 70 ATOM 640 N PHE 71 ATOM 641 CB PHE 71 ATOM 642 CA PHE 71 ATOM 644 CG PHE 71 ATOM 645 CD1 PHE 71 ATOM 646 CD2 PHE 71 ATOM 647 CE1 PHE 71 ATOM 646 CD2 PHE 71 ATOM 647 CE1 PHE 71 ATOM 648 CE2 PHE 71 ATOM 657 HG1 THR 72 ATOM 658 CG3 THR 72 ATOM 657 HG1 THR 72 ATOM 658 CG2 THR 72 ATOM 657 HG1 THR 72 ATOM 658 CG2 THR 72 ATOM 657 HG1 THR 72 ATOM 658 CG2 THR 72 ATOM 657 CG1 THR 72 ATOM 658 CG2 THR 72 ATOM 657 HG1 THR 72 ATOM 658 CG2 THR 72 ATOM 657 HG1 THR 72 ATOM 658 CG2 THR 72 ATOM 657 HG1 THR 72 ATOM 658 CG2 THR 72 ATOM 657 HG1 THR 72 ATOM 658 CG2 THR 72 ATOM 657 HG1 THR 72 ATOM 658 CG2 THR 72 ATOM 657 HG1 THR 72 ATOM 658 CG2 THR 72 ATOM 667 CD2 LEU 73 ATOM 668 C LEU 73 ATOM 667 CD2 LEU 73 ATOM 667 CD2 LEU 73 ATOM 667 CD2 LEU 73 ATOM 667 CD2 LEU 73 ATOM 668 C LEU 73 ATOM	ATOM	616	O SER	67	71.694 -7.974 39.896 1.00 28.90	L
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ATOM 658 CG2 THR 72 63.444 -5.113 42.358 1.00 20.23 ATOM 659 C THR 72 63.158 -2.381 39.761 1.00 26.95 ATOM 660 O THR 72 64.029 -1.501 39.850 1.00 20.23 ATOM 661 N LEU 73 61.965 -2.187 39.206 1.00 15.13 ATOM 662 H LEU 73 61.328 -2.929 39.146 1.00 0.00 ATOM 663 CA LEU 73 61.571 -0.895 38.696 1.00 15.13 ATOM 664 CB LEU 73 60.835 -1.052 37.379 1.00 24.34 ATOM 665 CG LEU 73 60.364 0.264 36.745 1.00 24.34 ATOM 667 CD2 LEU 73 61.473 1.274 36.754 1.00 24.34 ATOM 668 C LEU 73 60.626 -0.384 39.774 1.00 15.13	ATOM	657	HG1 THE	R 72		L
ATOM 659 C THR 72 63.158 -2.381 39.761 1.00 26.95 ATOM 660 O THR 72 64.029 -1.501 39.850 1.00 20.23 ATOM 661 N LEU 73 61.965 -2.187 39.206 1.00 15.13 ATOM 662 H LEU 73 61.328 -2.929 39.146 1.00 0.00 ATOM 663 CA LEU 73 61.571 -0.895 38.696 1.00 15.13 ATOM 664 CB LEU 73 60.835 -1.052 37.379 1.00 24.34 ATOM 665 CG LEU 73 60.364 0.264 36.745 1.00 24.34 ATOM 667 CD2 LEU 73 61.473 1.274 36.754 1.00 24.34 ATOM 668 C LEU 73 60.626 -0.384 39.774 1.00 15.13					63 444 -5 113 42 358 1 00 20 23	Ĺ
ATOM 660 O THR 72 64.029 -1.501 39.850 1.00 20.23 ATOM 661 N LEU 73 61.965 -2.187 39.206 1.00 15.13 ATOM 662 H LEU 73 61.328 -2.929 39.146 1.00 0.00 ATOM 663 CA LEU 73 61.571 -0.895 38.696 1.00 15.13 ATOM 664 CB LEU 73 60.835 -1.052 37.379 1.00 24.34 ATOM 665 CG LEU 73 60.364 0.264 36.745 1.00 24.34 ATOM 667 CD2 LEU 73 61.473 1.274 36.754 1.00 24.34 ATOM 668 C LEU 73 60.626 -0.384 39.774 1.00 15.13					63 158 _2 381 30 761 4 00 20 05	
ATOM 661 N LEU 73 61.965 -2.187 39.206 1.00 15.13 ATOM 662 H LEU 73 61.328 -2.929 39.146 1.00 0.00 ATOM 663 CA LEU 73 61.571 -0.895 38.696 1.00 15.13 ATOM 664 CB LEU 73 60.835 -1.052 37.379 1.00 24.34 ATOM 665 CG LEU 73 60.364 0.264 36.745 1.00 24.34 ATOM 667 CD2 LEU 73 61.473 1.274 36.754 1.00 24.34 ATOM 668 C LEU 73 60.626 -0.384 39.774 1.00 15.13						Ļ
ATOM 662 H LEU 73 61.328 -2.929 39.146 1.00 0.00 ATOM 663 CA LEU 73 61.571 -0.895 38.696 1.00 15.13 ATOM 664 CB LEU 73 60.835 -1.052 37.379 1.00 24.34 ATOM 665 CG LEU 73 60.364 0.264 36.745 1.00 24.34 ATOM 667 CD2 LEU 73 61.473 1.274 36.754 1.00 24.34 ATOM 668 C LEU 73 60.626 -0.384 39.774 1.00 15.13						L
ATOM 663 CA LEU 73 61.571 -0.895 38.696 1.00 15.13 ATOM 664 CB LEU 73 60.835 -1.052 37.379 1.00 24.34 ATOM 665 CG LEU 73 60.364 0.264 36.745 1.00 24.34 ATOM 666 CD1 LEU 73 61.473 1.274 36.754 1.00 24.34 ATOM 668 C LEU 73 60.626 -0.384 39.774 1.00 15.13						L
ATOM 664 CB LEU 73 60.835 -1.052 37.379 1.00 24.34 ATOM 665 CG LEU 73 60.364 0.264 36.745 1.00 24.34 ATOM 666 CD1 LEU 73 60.364 0.264 36.745 1.00 24.34 ATOM 667 CD2 LEU 73 61.473 1.274 36.754 1.00 24.34 ATOM 668 C LEU 73 60.626 -0.384 39.774 1.00 15.13						L
ATOM 664 CB LEU 73 60.835 -1.052 37.379 1.00 24.34 ATOM 665 CG LEU 73 60.364 0.264 36.745 1.00 24.34 ATOM 666 CD1 LEU 73 59.186 0.817 37.533 1.00 24.34 ATOM 667 CD2 LEU 73 61.473 1.274 36.754 1.00 24.34 ATOM 668 C LEU 73 60.626 -0.384 39.774 1.00 15.13						L
ATOM 665 CG LEU 73 60.364 0.264 36.745 1.00 24.34 ATOM 666 CD1 LEU 73 59.186 0.817 37.533 1.00 24.34 ATOM 667 CD2 LEU 73 61.473 1.274 36.754 1.00 24.34 ATOM 668 C LEU 73 60.626 -0.384 39.774 1.00 15.13	ATOM			73		L
ATOM 666 CD1 LEU 73 59.186 0.817 37.533 1.00 24.34 ATOM 667 CD2 LEU 73 61.473 1.274 36.754 1.00 24.34 ATOM 668 C LEU 73 60.626 -0.384 39.774 1.00 15.13	MOTA	665	CG LEU			ī
ATOM 667 CD2 LEU 73 61.473 1.274 36.754 1.00 24.34 ATOM 668 C LEU 73 60.626 -0.384 39.774 1.00 15.13						Ĺ
ATOM 668 C LEU 73 60.626 -0.384 39.774 1.00 15.13						Ĺ
=======================================					60 606 0 284 20 774 4 00 45 40	. –
73 59./5/ -1.14U 40.21/ 1.00 24.34					00.020 *0.304 39.774 7.00 75.73	L
		003	O LEU	13	59.757 -1.140 40.217 1.00 24.34	L

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ATOM
        670 N THR 74
                          60.763 0.865 40.221 1.00 15.60
 ATOM
        671 H THR 74
                          61.442 1.462 39.862 1.00 0.00
 ATOM
        672 CA THR
                     74
                          59.858 1.275 41.281 1.00 15.60
 ATOM
        673 CB THR 74
                           60.551 1.193 42.647 1.00 32.44
        674 OG1 THR 74
 ATOM
                            60.082 2.263 43.473 1.00 32.44
        675 HG1 THR 74
 ATOM
                            59.746 1.923 44.302 1.00 0.00
 ATOM
        676 CG2 THR 74
                           62.035 1.324 42.494 1.00 32.44
        677 C THR 74
 ATOM
                          59.217 2.644 41.135 1.00 15.60
                                                         L
 ATOM
        678 O THR 74
                          59.900 3.623 40.792 1.00 32,44
                                                         L
 ATOM
        679 N ILE 75
                         57.898 2.693 41.333 1.00 13.44
 MOTA
        680 H ILE 75
                         57.369 1.917 41.485 1.00 0.00
 ATOM
        681 CA ILE
                   75
                         57.163 3.943 41.277 1.00 13.44
 ATOM
        682 CB ILE 75
                          55.790 3.794 40.628 1.00 14.08
 MOTA
        683 CG2 ILE
                    75
                         55.333 5.142 40.119 1.00 14.08
 MOTA
        684 CG1 ILE 75
                         55.864 2.819 39.466 1.00 14.08
        685 CD1 ILE 75
 ATOM
                        54.889 3.097 38.324 1.00 14.08
 ATOM
        686 C ILE 75
                         56.941 4.495 42.691 1.00 13.44
 ATOM
        687 O ILE 75
                         56.158 3.916 43.480 1.00 14.08
                        57.631 5.607 42.997 1.00 11.81
 ATOM
        688 N SER 76
 ATOM
        689 H SER
                        58.208 6.005 42.310 1.00 0.00
                     76
 ATOM
        690 CA SER
                     76
                         57.560 6.234 44.321 1.00 11.81
 MOTA
        691 CB SER
                     76
                          58.188 7.619 44.276 1.00 47.61
        692 OG SER
 MOTA
                          57.875 8.220 43.039 1.00 47.61
                     76
 ATOM
        693 HG SER
                     76
                          57.401 9.053 43.189 1.00 0.00
 MOTA
        694 C SER
                         56.105 6.333 44.736 1.00 11.81
                     76
        695 O SER
 MOTA
                    76
                        55.665 5.690 45.687 1.00 47.61
        696 N SER 77
 MOTA
                         55.358 7.131 43.987 1.00 26.91
ATOM
        697 H SER 77
                         55.774 7.611 43.241 1.00 0.00
ATOM
        698 CA SER 77
                         53.938 7.320 44.215 1.00 26,91
MOTA
        699 CB SER
                     77
                         53.687 8.675 44.859 1.00 48.94
ATOM
       700 OG SER
                    77
                          54.684 9.594 44.459 1.00 48.94
ATOM
       701 HG SER 77
                          55.471 9.144 44.143 1.00 0.00
MOTA
       702 C SER 77
                         53.301 7.273 42.821 1.00 26.91
       703 O SER 77
MOTA
                         53.657 8.042 41.915 1.00 48.94
       704 N VAL 78
ATOM
                         52.366 6.347 42.654 1.00 30.42
ATOM
       705 H VAL 78
                         52.143 5.775 43.413 1.00 0.00
ATOM
       706 CA VAL 78
                         51.668 6.146 41.388 1.00 30.42
ATOM
       707 CB VAL 78
                         50.879 4.822 41.464 1.00 22.16
       708 CG1 VAL 78
ATOM
                        49.648 4.880 40.597 1.00 22.16
MOTA
       709 CG2 VAL 78
                        51.797 3.642 41.103 1.00 22.16
       710 C VAL 78
ATOM
                         50.707 7.263 41.019 1.00 30.42
ATOM
       711 O VAL 78
                         50.081 7.873 41.895 1.00 22.16
       712 N GLU
ATOM
                    79
                         50.608 7.539 39.721 1.00 20.62
ATOM
       713 H GLU
                    79
                         51.194 7.066 39.092 1.00 0.00
ATOM
       714 CA GLU 79
                         49.660 8.512 39.188 1.00 20.62
ATOM
       715 CB GLU 79
                         50.350 9.481 38.259 1.00 45,49
ATOM
       716 CG GLU 79
                         50.853 10.716 38.945 1.00 45.49
       717 CD GLU 79
MOTA
                         50.982 11.890 37.968 1.00 45.49
                         50.982 11.890 37.968 1.00 45.49
50.847 11.646 36.741 1.00 45.49
MOTA
       718 OE1 GLU 79
MOTA
       719 OE2 GLU 79
                         51.213 13.045 38.417 1.00 45.49
       720 C GLU 79
721 O GLU 79
MOTA
                         48.686 7.627 38.391 1.00 20.62
ATOM
                         49.079 6.600 37.850 1.00 45.49
MOTA
       722 N PRO 80
                         47.409 8.015 38.287 1.00 21.47
ATOM
       723 CD PRO 80
                        46.759 9.216 38.825 1.00 30.49
ATOM
       724 CA PRO 80
                        46.449 7.195 37.545 1.00 21.47
ATOM 725 CB PRO 80
                        45.147 7.970 37.653 1.00 30.49
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ATOM	726 CG PRO 80	45.314 8.827 38.802 1.00 30.49	L
ATOM	727 C PRO 80	46.785 6.906 36.105 1.00 21.47	L
ATOM	728 O PRO 80	46.267 5.966 35.534 1.00 30.49	Ĺ
ATOM	729 N GLU 81	47.653 7.698 35.507 1.00 38.97	L
ATOM	730 H GLU 81	48.061 8.411 36.028 1.00 0:00	Ĺ
ATOM			т.
			L
MOTA	732 CB GLU 81	48.466 8.764 33.462 1.00 19.68	Ļ
MOTA	733 CG GLU 81	48.767 9.879 34.467 1.00 19.68	Ļ
ATOM	734 CD GLU 81	47.534 10.407 35.253 1.00 19.68	Ļ
ATOM	735 OE1 GLU 81	46.689 11.149 34.663 1.00 19.68	
ATOM	736 OE2 GLU 81	47.444 10.079 36.465 1.00 19.68	
ATOM	737 C GLU 81	49.025 6.418 33.999 1.00 38.97	Ļ
ATOM	738 O GLU 81	49.387 6.026 32.910 1.00 19.68	L
ATOM	739 N ASP 82	49.478 5.922 35.141 1.00 28.17	L
ATOM	740 H ASP 82	49.126 6.252 35.982 1.00 0.00	L
ATOM	741 CA ASP 82	50.502 4.883 35.138 1.00 28.17	L
ATOM	742 CB ASP 82	51.236 4.845 36.464 1.00 8.94	L
ATOM	743 CG ASP 82	52.171 6.035 36.609 1.00 8.94	L
MOTA	744 OD1 ASP 82	52.351 6.730 35.577 1.00 8.94	L
ATOM	745 OD2 ASP 82	52.731 6.308 37.703 1.00 8.94	L
ATOM	746 C ASP 82	50.000 3.508 34.770 1.00 28.17	L
ATOM	747 O ASP 82	50.775 2.580 34.570 1.00 8.94	L
ATOM	748 N PHE 83	48.694 3.378 34.646 1.00 38.29	L
ATOM	749 H PHE 83	48.107 4.152 34.780 1.00 0.00	L
ATOM	750 CA PHE 83	48.158 2.091 34.282 1.00 38.29	L
ATOM	751 CB PHE 83	46.703 2.207 33.994 1.00 2.00	L
ATOM	752 CG PHE 83	46.223 1.158 33.139 1.00 2.00	L
ATOM	753 CD1 PHE 83	45.929 -0.082 33.662 1.00 2.00	L
ATOM	754 CD2 PHE 83	46.010 1.392 31.800 1.00 2.00	L
ATOM	755 CE1 PHE 83	45.426 -1.065 32.868 1.00 2.00	L
ATOM	756 CE2 PHE 83	45.491 0.381 30.994 1.00 2.00	L
MOTA	757 CZ PHE 83	45.205 -0.842 31.545 1.00 2.00	L
ATOM	758 C PHE 83	48.892 1.684 33.010 1.00 38.29	L
ATOM	759 O PHE 83	49.143 2.530 32.123 1.00 2.00	L
MOTA	760 N ALA 84	49.230 0.405 32.907 1.00 8.56	L
ATOM	761 H ALA 84	48.958 -0.223 33.618 1.00 0.00	L
ATOM	762 CA ALA 84	50.007 -0.050 31.770 1.00 8.56	L
ATOM	763 CB ALA 84	50.983 1.034 31.375 1.00 2.00	L
ATOM	764 C ALA 84	50.799 -1.330 32.054 1.00 8.56	L
ATOM	765 O ALA 84	50.796 -1.878 33.175 1.00 2.00	L
MOTA	766 N THR 85	51.462 -1.840 31.028 1.00 9.26	L
MOTA	767 H THR 85	51.410 -1.433 30.142 1.00 0.00	L
MOTA	768 CA THR. 85	52.239 -3.022 31.289 1.00 9.26	L
ATOM	769 CB THR 85	51.998 -4.139 30.301 1.00 21.39	L
ATOM	770 OG1 THR 85	50.686 -4.692 30.501 1.00 21.39	L
ATOM	771 HG1 THR 85	50.166 -4.111 31.065 1.00 0.00	L
ATOM	772 CG2 THR 85	53.000 -5.227 30.543 1.00 21.39	Ĺ
MOTA	773 C THR 85	53.682 -2.623 31.266 1.00 9.26	L
ATOM	774 O THR 85	54.112 -1.803 30.462 1.00 21.39	L
ATOM	775 N TYR 86	54.452 -3.188 32.168 1.00 33.52	Ĺ
MOTA	776 H TYR 86	54.092 -3.849 32.793 1.00 0.00	Ĺ
MOTA	777 CA TYR 86	55.838 -2.804 32.193 1.00 33.52	L
ATOM	778 CB TYR 86	56.189 -2.202 33.563 1.00 18.59	L
ATOM	779 CG TYR 86	55.442 -0.919 33.839 1.00 18.59	Ĺ
ATOM:	780 CD1 TYR 86	54.115 -0.941 34.295 1.00 18.59	Ĺ
ATOM	781 CE1 TYR 86	53.391 0.209 34.448 1.00 18.59	Ĺ

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MOTA
        782 CD2 TYR 86
                            56.017 0.312 33.564 1.00 18.59
 ATOM
                            55.286 1.482 33.713 1.00 18.59
         783 CE2 TYR 86
 ATOM
         784 CZ TYR
                           53.970 1.413 34.142 1.00 18.59
                      86
 ATOM
         785 OH TYR
                      86
                           53.200 2.535 34.137 1.00 18.59
        786 HH TYR
 ATOM
                     86
                           52.549 2.492 33.448 1.00 0.00
 ATOM
        787 C TYR 86
                          56.779 -3.945 31.840 1.00 33.52
        788 O TYR
 ATOM
                           56.643 -5.087 32.338 1.00 18.59
                     86
 ATOM
        789 N TYR
                          57.736 -3.620 30.972 1.00 29.30
                     87
        790 H TYR
 ATOM
                          57.788 -2.718 30.604 1.00 0.00
                     87
                           58.710 -4.611 30.542 1.00 29.30
 ATOM
        791 CA TYR
                     87
 ATOM
        792 CB TYR
                     87
                           58.603 -4.851 29.019 1.00 28,43
 MOTA
                           57.236 -5.172 28.472 1.00 28.43
        793 CG TYR 87
 ATOM
        794 CD1 TYR 87
                           56.728 -6.461 28.520 1.00 28.43
        795 CE1 TYR 87
 ATOM
                           55.481 -6.752 27.958 1.00 28.43
 ATOM
        796 CD2 TYR 87
                           56.470 -4.173 27.852 1.00 28.43
 ATOM
        797 CE2 TYR 87
                           55.229 -4.447 27.290 1.00 28.43
 ATOM
        798 CZ TYR 87
                           54.742 -5.731 27.345 1.00 28.43
 ATOM
        799 OH TYR 87
                           53.512 -5.980 26.789 1.00 28.43
 ATOM
        800 HH TYR 87
                           53.616 -6.313 25.897 1.00 0.00
 ATOM
        801 C TYR 87
                          60.175 -4.298 30.841 1.00 29.30
 MOTA
        802 O TYR
                    87
                          60.617 -3.162 30.696 1.00 28.43
 ATOM
        803 N CYS
                    88
                          60.918 -5.320 31.259 1.00 22.79
 ATOM
        804 H CYS 88
                          60.517 -6.182 31,433 1.00 0.00
 ATOM
        805 CA CYS 88
                         62.365 -5.173 31.453 1.00 22.79
 ATOM
        806 C CYS
                     88
                          62.935 -5.857 30.180 1.00 22.79
 MOTA
        807 O CYS
                          62.324 -6.795 29.627 1.00 37.72
                     88
 ATOM
        808 CB CYS
                     88
                          62.856 -5.885 32.721 1.00 37.72
 MOTA
        809 SG CYS
                          62.532 -7.663 32.722 1.00 37.72
                    88
MOTA
        810 N GLN
                          64.061 -5.361 29.679 1.00 41.42
                     89
ATOM
        811 H GLN
                     89
                          64.491 -4.609 30.113 1.00 0.00
MOTA
        812 CA GLN
                          64.681 -5.927 28.473 1.00 41.42
                    89
MOTA
        813 CB GLN
                     89
                          64.212 -5.138 27.219 1.00 31.20
ATOM
        814 CG GLN
                     89
                          64.951 -5.432 25.923 1.00 31.20
        815 CD GLN
ATOM
                     89
                          66.153 -4.516 25.764 1.00 31.20
ATOM
        816 OE1 GLN
                     89
                           66.064 -3.339 26.062 1.00 31.20
ATOM
        817 NE2 GLN
                           67.286 -5.060 25.308 1.00 31.20
                     89
ATOM
        818 HE21 GLN
                     89
                           68.122 -4.811 25.733 1.00 0.00
MOTA
        819 HE22 GLN
                           67.215 -5.697 24.551 1.00 0.00
                     89
ATOM
        820 C GLN 89
                         66.207 -5.886 28.643 1.00 41.42
MOTA
       821 O GLN 89
                         66.781 -4.838 28.972 1.00 31.20
MOTA
       822 N HIS 90
                         66.852 -7.041 28.456 1.00 26.12
MOTA
                         66.348 -7.846 28.207 1.00 0.00
       823 H HIS
                   90
MOTA
       824 CA HIS
                   90
                         68.305 -7.093 28.616 1.00 26.12
                                                        L
MOTA
       825 CB HIS
                    90
                         68.773 -8.427 29.253 1.00 19.29
ATOM
                         69.156 -9.476 28.254 1.00 19.29
       826 CG HIS
                    90
MOTA
       827 CD2 HIS
                        68.419 -10.431 27.643 1.00 19.29
                   90
                         70.424 -9.574 27.718 1.00 19.29
ATOM
       828 ND1 HIS 90
ATOM
       829 HD1 HIS 90
                         71.182 -9.007 27.978 1.00 0.00
ATOM
       830 CE1 HIS 90
                         70.451 -10.540 26.821 1.00 19.29
                         69.247 -11.076 26.757 1.00 19.29
ATOM
       831 NE2 HIS 90
                                                        L
                         68.980 -11.816 26.178 1.00 0.00
ATOM
       832 HE2 HIS 90
ATOM
                         68.988 -6.895 27.281 1.00 26.12
       833 C HIS 90
MOTA
       834 O HIS 90
                         68.453 -7.203 26.219 1.00 19.29
ATOM
       835 N SER 91
                         70.195 -6.374 27.355 1.00 29.57
ATOM
       836 H SER 91
                         70.566 -6.176 28.241 1.00 0.00
       837 CA SER 91
ATOM
                        70.958 -6.113 26.160 1.00 29.57
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ATOM
       838 CB SER 91
                          70.857 -4.615 25.784 1.00 18.43
                          71.810 -3.817 26.460 1.00 18.43
MOTA
       839 OG SER
                    91
       840 HG SER
                          72,526 -3.574 25.872 1.00 0.00
MOTA
                    91
                         72.387 -6.531 26.416 1.00 29.57
MOTA
       841 C SER
                    91
                         73.294 -5.993 25.814 1.00 18.43
MOTA
       842 O SER
                    91
                         72.570 -7.485 27.322 0.00 20.00
ATOM
       843 N TRP
                    92
ATOM 844 H TRP
                    92
                         71.785 -7.860 27.764 1.00 0.00
ATOM 845 CA TRP 92
                         73.892 -7.989 27.678 0.00 20.00
ATOM 846 CB TRP
                    92
                         73.784 -8.997 28.811 0.00 20.00
ATOM 847 CG TRP
                    92
                         75.073 -9.711 29.111 0.00 20.00
ATOM 848 CD2 TRP
                    92
                         76.150 -9.216 29.914 0.00 20.00
ATOM 849 CE2 TRP
                    92
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ATOM
       850 CE3 TRP
                    92
                          76.411 -7.988 30.537 0.00 20.00
MOTA
       851 CD1 TRP
                    92
                          75.395 -10.997 28.789 0.00 20.00
ATOM
       852 NE1 TRP
                    92
                          76.598 -11.337 29.355 0.00 20.00
MOTA
       853 HE1 TRP
                          77.031 -12.210 29.273 1.00 0.00
                    92
ATOM
       854 CZ2 TRP
                    92
                          78.263 -10.125 30.789 0.00 20.00
       855 CZ3 TRP
ATOM
                     92
                          77.583 -7.849 31.272 0.00 20.00
ATOM
       856 CH2 TRP
                    92
                          78.493 -8.916 31.391 0.00 20.00
ATOM
       857 C TRP
                    92
                         74.554 -8.696 26.523 0.00 20.00
ATOM
       858 O TRP
                         75.769 -8.885 26.501 0.00 20.00
                    92
ATOM
       859 N GLU 93
                         73.729 -9.097 25.576 1.00 30.57
                                                       L
ATOM
       860 H GLU 93
                         72.762 -8.880 25.659 1.00 0.00
                        74.166 -9.848 24.408 1.00 30.57
ATOM
       861 CA GLU 93
       862 CB GLU 93
ATOM
                         74.450 -11.277 24.826 1.00 30.85
       863 CG GLU 93
ATOM
                        73.230 -12.165 24.679 1.00 30.85
MOTA
       864 CD GLU 93
                         73.513 -13.592 25.067 1.00 30.85
ATOM: 865 OE1 GLU 93
                        74.563 -13.812 25.709 1.00 30.85
       866 OE2 GLU 93 72.689 -14.475 24.730 1.00 30.85
ATOM
ATOM
       867 C GLU 93 73.124 -9.897 23.267 1.00 30.57
MOTA
       868 O GLU 93 72.105 -9.164 23.274 1.00 30.85
       869 N ILE 94
                        73.402 -10.768 22.293 1.00 12.13
ATOM
       870 H ILE 94
ATOM
                        74.222 -11.298 22.344 1.00 0.00
                                                      L
ATOM
       871 CA ILE 94
                       72.523 -10.948 21.153 1.00 12.13
       872 CB ILE 94
                       73.254 -10.831 19.811 1.00 17.81
ATOM
       873 CG2 ILE 94
                        72.529 -11.617 18.747 1.00 17.81
MOTA
       874 CG1 ILE 94
                        73.292 -9.358 19.369 1.00 17.81
ATOM
       875 CD1 ILE 94
ATOM
                         73.715 -9.129 17.881 1.00 17.81
       876 C ILE 94
877 O ILE 94
ATOM
                        71.964 -12.338 21.288 1.00 12.13
                        72.716 -13.268 21.574 1.00 17.81
ATOM
MOTA
       878 N PRO 95
                        70.628 -12.500 21.159 1.00 29.48
ATOM 879 CD PRO 95
                        69.992 -13.832 21.293 1.00 7.26
ATOM
      880 CA PRO 95
                        69.615 -11.459 20.902 1.00 29.48
ATOM
      881 CB PRO 95
                         68.487 -12.235 20.239 1.00 7.26
                        68.501 -13.546 21.027 1.00 7.26
ATOM 882 CG PRO 95
ATOM 883 C PRO 95
                         69.152 -10.883 22.247 1.00 29.48
ATOM 884 O PRO 95
                         69.139 -11.600 23.264 1.00 7.26
ATOM 885 N PRO
                    96
                         68.736 -9.608 22.272 1.00 29.50
ATOM 886 CD PRO 96
                         68.549 -8.609 21.208 1.00 21.77
ATOM 887 CA PRO 96
                         68.305 -9.092 23.576 1.00 29.50
ATOM 888 CB PRO 96
                         68.248 -7.577 23.382 1.00 21.77
                         67.966 -7.412 21.942 1.00 21.77
ATOM 889 CG PRO 96
                         66.936 -9.686 23.752 1.00 29.50
ATOM 890 C PRO 96
ATOM 891 O PRO 96
                       66.234 -9.902 22.769 1.00 21.77
ATOM 892 N THR 97
                        66.560 -9.985 24.982 1.00 12.13
                      67.159 -9.831 25.739 1.00 0.00
ATOM 893 H THR 97
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ATOM	894 CA THR 97	65.261 -10.554 25.188 1.00 12.13	L
ATOM	895 CB THR 97	65.350 -12.022 25.763 1.00 14.80	L
MOTA	896 OG1 THR 97	221122 20,077 1,00 17,00) L
ATOM ATOM	897 HG1 THR 97 898 CG2 THR 97	65.725 -11.594 27.654 1.00 0.00	
ATOM	899 C THR 97	65.941 -12.916 24.741 1.00 14.80	
ATOM	900 O THR 97	64.481 -9.661 26.123 1.00 12.13 65.076 -8.849 26.866 1.00 14.80	L
ATOM	901 N PHE 98	65.076 -8.849 26.866 1.00 14.80 63.153 -9.784 26.067 1.00 11.95	L
ATOM	902 H PHE 98	62.760 -10.414 25.422 1.00 0.00	Ĺ
ATOM	903 CA PHE 98	62.322 -9.000 26.934 1.00 11.95	L
ATOM	904 CB PHE 98	61.188 -8.334 26.191 1.00 13.77	ī
ATOM	905 CG PHE 98	61.612 -7.272 25.235 1.00 13.77	Ĺ
ATOM	906 CD1 PHE 98	61.991 -7.600 23.931 1.00 13.77	L
ATOM	907 CD2 PHE 98	61.465 -5.929 25.566 1.00 13.77	L
ATOM	908 CE1 PHE 98	62.188 -6.615 22.977 1.00 13.77	L
ATOM	909 CE2 PHE 98	61.664 -4.921 24.610 1.00 13.77	L
MOTA	910 CZ PHE 98	62.016 -5.268 23.325 1.00 13.77	L
MOTA MOTA	911 C PHE 98	61.781 -9.992 27.923 1.00 11.95	L.
ATOM	912 O PHE 98 913 N GLY 99	61.909 -11.225 27.755 1.00 13.77	. L
ATOM	914 H GLY 99	61.203 -9.453 28.992 1.00 7.85 61.153 -8.481 29.073 1.00 0.00	Ļ
ATOM	915 CA GLY 99	60.651 -10.306 30.022 1.00 7.85	L
ATOM	916 C GLY 99	59.190 -10.344 29.734 1.00 7.85	L
MOTA	917 O GLY 99	58.710 -9.549 28.960 1.00 19.99	Ĺ
MOTA	918 N GLY 100	58.497 -11.263 30.365 1.00 20.03	L
MOTA	919 H GLY 100	58.957 -11.868 30.995 1.00 0.00	L
ATOM	920 CA GLY 100	57.071 -11.394 30.164 1.00 20.03	L
ATOM	921 C GLY 100	56.106 -10.278 30.569 1.00 20.03	L
ATOM	922 O GLY 100	54.894 -10.461 30.421 1.00 24.24	L
ATOM ATOM	923 N GLY 101 924 H GLY 101	56.589 -9.139 31.067 1.00 16.11	L
ATOM	924 H GLY 101 925 CA GLY 101	57.553 -9.001 31.185 1.00 0.00	L,
ATOM	926 C GLY 101	55.647 -8.101 31.454 1.00 16.11 54.994 -8.309 32.814 1.00 16.11	,L
ATOM	927 O GLY 101	54.866 -9.414 33.326 1.00 6.34	L
ATOM	928 N THR 102	54.613 -7.191 33.408 1.00 2.77	Ĺ
MOTA	929 H THR 102	54.777 -6.347 32.941 1.00 0.00	Ĺ
MOTA	930 CA THR 102	53.953 -7.136 34.707 1.00 2.77	L
ATOM	931 CB THR 102	54.892 -6.585 35.862 1.00 19.70	L
ATOM	932 OG1 THR 102	55.725 -7.623 36.397 1.00 19.70	L
ATOM	933 HG1 THR 102	56.286 -7.983 35.705 1.00 0.00	L
MOTA MOTA	934 CG2 THR 102 935 C THR 102	54.047 -6.025 37.009 1.00 19.70	L
ATOM	935 C THR 102 936 O THR 102	52.879 -6.086 34.468 1.00 2.77	Ļ
ATOM	937 N LYS 103	53.180 -4.941 34.142 1.00 19.70 51.626 -6.472 34.608 1.00 26.34	L
ATOM	938 H LYS 103	51.385 -7.397 34.789 1.00 0.00	L L
ATOM	939 CA LYS 103	50.557 -5.513 34.457 1.00 26.34	L
MOTA	940 CB LYS 103	49.279 -6.224 33.978 1.00 10.49	Ĺ
ATOM	941 CG LYS 103	49.166 -6.299 32.451 1.00 10.49	Ĺ
ATOM	942 CD LYS 103	48.439 -7.537 31.974 1.00 10.49	L
ATOM	943 CE LYS 103	47.766 -7.226 30.655 1.00 10.49	L
MOTA	944 NZ LYS 103 945 HZ1 LYS 103	47.315 -8.431 29.862 1.00 10.49	L
ATOM ATOM	945 HZ1 LYS 103 946 HZ2 LYS 103	46.866 -8.126 28.964 1.00 0.00	L
ATOM	947 HZ3 LYS 103	46.612 -8.973 30.416 1.00 0.00 48.119 -9.045 29.637 1.00 0.00	L
ATOM	948 C LYS 103	50.328 -4.757 35.799 1.00 26.34	L
ATOM	949 O LYS 103	50.231 -5.334 36.878 1.00 10.49	L
	_	TIME TO THE PERSON NAMED IN	_

MOTA	950 N LEU 104	50.292 -3.439 35.723 1.00 19.87 L
ATOM	951 H LEU 104	50.438 -2.985 34.861 1.00 0.00 L
ATOM	952 CA LEU 104	50.028 -2.647 36.894 1.00 19.87 L
MOTA	953 CB LEU 104	50.990 -1.476 36.951 1.00 18.52 L
ATOM	954 CG LEU 104	
ATOM	955 CD1 LEU 104	51.200 -0.132 39.022 1.00 18.52 L
ATOM	956 CD2 LEU 104	50.951 1.002 36.842 1.00 18.52 L
ATOM	957 C LEU 104	48.599 -2.135 36.763 1.00 19.87 L
ATOM	958 O LEU 104	48.255 -1.500 35.783 1.00 18.52 L
ATOM	959 N GLU 105	47.756 -2.445 37.732 1.00 14.13 L
MOTA	960 H GLU 105	48.057 -3.001 38.476 1.00 0.00 L
ATOM	961 CA GLU 105	46.395 -1.975 37.683 1.00 14.13 L
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ATOM	962 CB GLU 105	45.429 -3.143 37.855 1.00 34.30 L
ATOM	963 CG GLU 105	45.934 -4.464 37.337 1.00 34.30 L
MOTA	964 CD GLU 105	44.851 -5.534 37.336 1.00 34.30 L
ATOM	965 OE1 GLU 105	43.725 -5.217 37.782 1.00 34.30 L
ATOM	966 OE2 GLU 105	45.119 -6.685 36.899 1.00 34.30 L
MOTA	967 C GLU 105	46.165 -0.920 38.780 1.00 14.13 L
ATOM	968 O GLU 105	46.794 -0.981 39.837 1.00 34.30 L
ATOM	969 N ILE 106	45.257 0.034 38.524 1.00 2.00 L
ATOM	970 H ILE 106	44.773 0.026 37.673 1.00 0.00 L
ATOM	971 CA ILE 106	44.977 1.083 39.485 1.00 2.00 L
ATOM	972 CB ILE 106	44.938 2.403 38.839 1.00 7.09 L
ATOM	973 CG2 ILE 106	44.809 3.486 39.944 1.00 7.09 L
ATOM	974 CG1 ILE 106	46.139 2.559 37.918 1.00 7.09 L
MOTA	975 CD1 ILE 106	47.372 2.099 38.488 1.00 7.09 L
ATOM	976 C ILE 106	43.732 1.037 40.343 1.00 2.00 L
ATOM	977 O ILE 106	42.630 1.221 39.884 1.00 7.09 L
ATOM	978 N LYS 107	43.933 0.837 41.627 1.00 32.75 L
ATOM	979 H LYS 107	44.845 0.703 41.951 1.00 0.00 L
ATOM	980 CA LYS 107	42.839 0.813 42.560 1.00 32.75 L
ATOM	981 CB LYS 107	43.402 0.483 43.936 1.00 14.75 L
MOTA	982 CG LYS 107	44.193 -0.814 43.860 1.00 14.75 L
ATOM	983 CD LYS 107	44.037 -1.700 45.071 1.00 14.75 L
ATOM	984 CE LYS 107	45.062 -1.390 46.163 1.00 14.75 L
ATOM	985 NZ LYS 107	44.530 -1.639 47.539 1.00 14.75 L
ATOM	986 HZ1 LYS 107	43.828 -0.952 47.829 1.00 0.00 L
ATOM	987 HZ2 LYS 107	45.306 -1.706 48.226 1.00 0.00 L
ATOM	988 HZ3 LYS 107	
MOTA	989 C LYS 107	42.214 2.224 42.421 1.00 32.75 L
MOTA	990 O LYS 107	42.833 3.152 41.981 1.00 14.75 L
ATOM	991 N ARG 108	41.007 2.435 42.804 1.00 2.00 L
MOTA	992 H ARG 108	40.747 1.691 43.234 1.00 0.00 L
ATOM	993 CA ARG 108	
		40.248 3.650 42.593 1.00 2.00 L
ATOM	994 CB ARG 108	39.947 3.704 41.107 1.00 4.26 L
ATOM	995 CG ARG 108	39.087 4.746 40.626 1.00 4.26 L
ATOM	996 CD ARG 108	37.959 4.168 39.895 1.00 4.26 L
ATOM	997 NE ARG 108	36.804 4.847 40.431 1.00 4.26 L
ATOM		
		36.194 4.381 40.991 1.00 0.00 L
MOTA	999 CZ ARG 108	36.506 6.121 40.156 1.00 4.26 L
MOTA	1000 NH1 ARG 108	37.298 6.814 39.338 1.00 4.26 L
ATOM	1001 HH11 ARG 108	
ATOM	1002 HH12 ARG 108	
ATOM	1003 NH2 ARG 108	
MOTA	1004 HH21 ARG 108	
MOTA	1005 HH22 ARG 108	3 . 34.669 6.969 40.175 1.00 0.00 L

ATOM	1006 C ARG 108	38.952 3.399 43.385 1.00 2.00	
ATOM	1000 O ARG 108	72,000 1100 2,00	L
			L
ATOM	1008 N THR 109	38.223 4.429 43.667 1.00 4.52	L
ATOM	1009 H THR 109	38.506 5.326 43.364 1.00 0.00	L
ATOM	1010 CA THR 109	36.991 4.248 44.408 1.00 4.52	L
ATOM	1011 CB THR 109	36.461 5.634 44.770 1.00 22.42	L
ATOM	1012 OG1 THR 109	37.125 6.097 45.948 1.00 22,42	2 L
ATOM	1013 HG1 THR 109	37.489 5.342 46.412 1.00 0.00	L
ATOM	1014 CG2 THR 109	34.999 5.624 44.974 1.00 22.42	
ATOM	1015 C THR 109	35.920 3.536 43.608 1.00 4.52	L
ATOM	1016 O THR 109	35.888 3.605 42.372 1.00 22.42	ī
ATOM	1017 N VAL 110	34.984 2.914 44.309 1.00 9.69	L
ATOM	1018 H VAL 110	35.022 2.926 45.293 1.00 0.00	Ĺ
ATOM	1019 CA VAL 110	33.892 2.209 43.624 1.00 9.69	
ATOM			L
		33.008 1.414 44.664 1.00 9.78	Ļ
ATOM	1021 CG1 VAL 110	31.614 1.167 44.122 1.00 9.78	L
ATOM	1022 CG2 VAL 110	33.648 0.107 44.984 1.00 9.78	L
MOTA	1023 C VAL 110	33.056 3.245 42.876 1.00 9.69	L
ATOM	1024 O VAL 110	32.916 4.344 43.346 1.00 9.78	L
ATOM	1025 N ALA 111	32.517 2.906 41.709 1.00 9.88	L
ATOM	1026 H ALA 111	32.680 2.007 41.368 1.00 0.00	L
ATOM	1027 CA ALA 111	31.699 3.845 40.921 1.00 9.88	L
ATOM	1028 CB ALA 111	32.580 4.700 40.052 1.00 12.47	L
ATOM	1029 C ALA 111	30.681 3.117 40.049 1.00 9.88	L
ATOM	1030 O ALA 111	31.034 2.222 39.278 1.00 12.47	L
ATOM	1031 N ALA 112	29.419 3.533 40.177 1.00 15.14	Ē
ATOM	1032 H ALA 112	29.243 4.287 40.779 1.00 0.00	Ĺ
ATOM	1033 CA ALA 112	28.306 2.944 39.459 1.00 15.14	L
ATOM	1034 CB ALA 112	27.013 3.322 40.151 1.00 14.29	Ĺ
ATOM	1035 C ALA 112	28.262 3.366 37.982 1.00 15.14	L
ATOM	1036 O ALA 112	28.493 4.496 37.661 1.00 14.29	_
ATOM	1037 N PRO 113	27.921 2.455 37.076 1.00 14.29	L
ATOM	1038 CD PRO 113	27.509 1.053 37.228 1.00 14.66	L.
ATOM	1039 CA PRO 113		Ļ
ATOM			Ļ
ATOM		27.758 1.535 34.959 1.00 14.66	Ļ
ATOM		27.020 0.700 35.871 1.00 14.66	L
		26.767 3.802 35.307 1.00 2.00	Ļ
ATOM		25.791 3.928 35.999 1.00 14.66	L
MOTA	1044 N SER 114	26.930 4.452 34.169 1.00 11.31	L
MOTA	1045 H SER 114	27.775 4.338 33.679 1.00 0.00	L
ATOM	1046 CA SER 114	25.900 5.319 33.602 1.00 11.31	L
ATOM	1047 CB SER 114	26.483 6.645 33.211 1.00 21.44	L
ATOM	1048 OG SER 114	26.625 7.399 34.396 1.00 21.44	L
ATOM	1049 HG SER 114	26.649 6.799 35.136 1.00 0.00	L
ATOM	1050 C SER 114	25.447 4.554 32.372 1.00 11.31	L
ATOM	1051 O SER 114	26.150 4.488 31.365 1.00 21.44	L
ATOM	1052 N VAL 115	24.264 3.969 32.484 1.00 13.77	L
MOTA	1053 H VAL 115	23.749 4.145 33.297 1.00 0.00	L
ATOM	1054 CA VAL 115	23.781 3.111 31.456 1.00 13.77	L
ATOM	1055 CB VAL 115	23.148 1.928 32.143 1.00 7.06	L
MOTA	1056 CG1 VAL 115	22.408 2.428 33.293 1.00 7.06	Ĺ
MOTA	1057 CG2 VAL 115	22.300 1.166 31.214 1.00 7.06	Ĺ
MOTA	1058 C VAL 115	22.912 3.713 30.355 1.00 13.77	L
MOTA	1059 O VAL 115	21.821 4.200 30.582 1.00 7.06	Ĺ
MOTA	1060 N PHE 116	23.437 3.660 29.143 1.00 3.49	Ĺ
MOTA	1061 H PHE 116	24.320 3.250 29.040 1.00 0.00	Ē
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22.787 4.176 27.978 1.00 3.49
     ATOM 1062 CA PHE 116
                                                                                 23.814 5.009 27.279 1.00 10.72
     ATOM 1063 CB PHE 116
                                                                                 24,348 6.115 28.142 1.00 10.72
     ATOM 1064 CG PHE 116
                                                                                  23.711 7.317 28.213 1.00 10.72
     ATOM 1065 CD1 PHE 116
                                                                                  25.543 5.987 28.819 1.00 10.72
     ATOM 1066 CD2 PHE 116
     ATOM 1067 CE1 PHE 116
ATOM 1068 CE2 PHE 116
                                                                                  24.256 8.360 28.922 1.00 10.72
                                                                                  26.073 7.037 29.527 1.00 10.72
    ATOM 1068 CE2 PHE 116
ATOM 1069 CZ PHE 116
ATOM 1070 C PHE 116
ATOM 1071 O PHE 116
ATOM 1072 N ILE 117
ATOM 1073 H ILE 117
ATOM 1074 CA ILE 117
ATOM 1075 CB ILE 117
ATOM 1076 CG2 ILE 117
ATOM 1077 CG1 ILE 117
ATOM 1078 CD1 ILE 117
     ATOM 1078 CD1 ILE 117 18.648 0.171 24.327 1.00 22.08
     ATOM 1079 C ILE 117 20.353 2.749 24.164 1.00 2.00 L
ATOM 1080 O ILE 117 19.985 3.902 23.975 1.00 22.08 L
     ATOM 1081 N PHE 118 20.678 1.941 23.149 1.00 17.15
     ATOM 1082 H PHE 118 20.928 1.025 23.364 1.00 0.00 L
ATOM 1083 CA PHE 118 20.658 2.407 21.728 1.00 17.15 L
     ATOM 1084 CB PHE 118 22.082 2.465 21.135 1.00 2.00
ATOM 1085 CG FILE
ATOM 1086 CD1 PHE 118 22.000
ATOM 1087 CD2 PHE 118 23.822 3.490 22.609 1.00
ATOM 1088 CE1 PHE 118 23.317 5.974 21.555 1.00 2.00
ATOM 1089 CE2 PHE 118 24.505 4.561 23.083 1.00 2.00
ATOM 1090 CZ PHE 118 24.251 5.828 22.553 1.00 2.00
ATOM 1091 C PHE 118 19.806 1.610 20.767 1.00 17.15
ATOM 1092 O PHE 118 20.040 0.445 20.548 1.00 2.00
ATOM 1093 N PRO 119 18.793 2.235 20.167 1.00 24.93
ATOM 1094 CD PRO 119 18.228 3.601 20.256 1.00 3.24
ATOM 1095 CA PRO 119 18.027 1.380 19.259 1.00 24.93
ATOM 1096 CB PRO 119 16.682 2.073 19.179 1.00 3.24
1097 CG PRO 119 16.772 3.346 20.201 1.00 3.24
1097 CG PRO 119 16.772 3.346 20.201 1.00 3.24
     ATOM 1085 CG PHE 118
                                                                             22.877 3.635 21.604 1.00 2.00
     ATOM 1100 N PRO 120
                                                                                18.178 0.362 17.039 1.00 12.24
     ATOM 1101 CD PRO 120
                                                                                17.129 -0.690 17.114 1.00 2.00
     ATOM 1102 CA PRO 120
                                                                                18.863 0.323 15.767 1.00 12.24
     ATOM 1103 CB PRO 120
                                                                                 18.545 -1.057 15.242 1.00 2.00
     ATOM 1104 CG PRO 120
                                                                                 17.192 -1.364 15.737 1.00 2.00
     ATOM 1105 C PRO 120
                                                                                18.504 1.417 14.757 1.00 12.24
     ATOM 1106 O PRO 120
                                                                                17.395 1.980 14.658 1.00 2.00
     ATOM 1107 N SER 121
                                                                                19.545 1.661 13.992 1.00 6.42
    ATOM 1107 N SER 121 19.545 1.661 13.992 1.00 6.42 L ATOM 1108 H SER 121 20.333 1.143 14.235 1.00 0.00 L ATOM 1109 CA SER 121 19.639 2.581 12.891 1.00 6.42 L ATOM 1110 CB SER 121 21.033 2.356 12.307 1.00 10.39 L ATOM 1111 OG SER 121 21.687 1.305 13.069 1.00 10.39 L ATOM 1112 HG SER 121 22.131 1.703 13.832 1.00 0.00 L ATOM 1113 C SER 121 18.564 2.263 11.851 1.00 6.42 L ATOM 1114 O SER 121 18.475 1.144 11.383 1.00 10.39 L ATOM 1115 N ASP 122 17.736 3.229 11.496 1.00 24.43 L ATOM 1116 H ASP 122 17.796 4.112 11.931 1.00 0.00 L ATOM 1117 CA ASP 122 16.747 2.954 10.464 1.00 24.43 L
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ATOM 1118 CB ASP 122
                                  15.942 4.223 10.132 1.00 15.85
 ATOM 1119 CG ASP 122 14.661 4.360 10.984 1.00 15.85
ATOM 1120 OD1 ASP 122 14.372 3.450 11.779 1.00 15.85
ATOM 1121 OD2 ASP 122 13.937 5.387 10.851 1.00 15.85
ATOM 1122 C ASP 122 17.581 2.463 9.265 1.00 24.43 L
ATOM 1123 O ASP 122 17.251 1.486 8.590 1.00 15.85 L
ATOM 1124 N GLU 123 18.688 3.140 9.023 1.00 7.32 L
 ATOM 1125 H GLU 123
                                 18.909 3.926 9.575 1.00 0.00
 ATOM 1126 CA GLU 123
                                 19.589 2.742 7.954 1.00 7.32
 ATOM 1127 CB GLU 123
                                 20.954 3.437 8.127 1.00 28.08
 ATOM 1128 CG GLU 123
                                 21.951 3.311 6.981 1.00 28.08
 ATOM 1129 CD GLU 123
                                 23.239 4.131 7.247 1.00 28.08
                                 24.286 3.912 6.548 1.00 28.08
 ATOM 1130 OE1 GLU 123
 ATOM 1131 OE2 GLU 123
                                 23.196 5.005 8.160 1.00 28.08
 ATOM 1132 C GLU 123
                                 19.762 1.233 8.061 1.00 7.32
 ATOM 1133 O GLU 123
                                  19.262 0.465 7.222 1.00 28.08
ATOM 1134 N GLN 124
                                  20.469 0.805 9.103 1.00 19.71
ATOM 1135 H GLN 124
ATOM 1136 CA GLN 124
                                  20.836 1.433 9.749 1.00 0.00
                                 20.692 -0.618 9.280 1.00 19.71
ATOM 1137 CB GLN 124
ATOM 1138 CG GLN 124
ATOM 1139 CD GLN 124
                                   21.174 -0.891 10.687 1.00 17.69
                                  22.141 -1.986 10.771 1.00 17.69
ATOM 1139 CD GLN 124 21.921 -2.850 11.968 1.00 17.69
ATOM 1140 OE1 GLN 124 21.275 -2.447 12.923 1.00 17.69
ATOM 1141 NE2 GLN 124 22.468 -4.054 11.933 1.00 17.69
ATOM 1142 HE21 GLN 124 23.369 -4.148 11.578 1.00 0.00
                                   21.921 -2.850 11.968 1.00 17.69
ATOM 1143 HE22 GLN 124 21.927 -4.805 12.270 1.00 0.00
ATOM 1144 C GLN 124 19.451 -1.481 8.968 1.00 19.71
ATOM 1145 O GLN 124
                                 19.535 -2,430 8,158 1,00 17,69
ATOM 1146 N LEU 125
                                  18.316 -1.142 9.585 1.00 20.07
                                                                         L
ATOM 1147 H LEU 125
                                  18.297 -0.368 10.178 1.00 0.00
                                                                        L
ATOM 1148 CA LEU 125
                                 17.088 -1.893 9.403 1.00 20.07
ATOM 1149 CB LEU 125
                                 15.928 -1.092 9.943 1.00 5.27
ATOM 1150 CG LEU 125
                                  15.977 -1.130 11.452 1.00 5.27
ATOM 1151 CD1 LEU 125
                                 14.840 -0.438 12.018 1.00 5.27
ATOM 1152 CD2 LEU 125
                                 15.961 -2.535 11.895 1.00 5.27
ATOM 1153 C LEU 125
                                  16.837 -2.300 7.967 1.00 20.07
ATOM 1154 O LEU 125
                                  16.514 -3.462 7.677 1.00 5.27
ATOM 1155 N LYS 126
                                 17.023 -1.351 7.066 1.00 30.95
ATOM 1156 H LYS 126
                                 17.283 -0.463 7.373 1.00 0.00
                                 17.283 -0.463 7.373 1.00 0.00

16.838 -1.581 5.640 1.00 30.95

17.086 -0.257 4.902 1.00 51.57

16.362 0.948 5.545 1.00 51.57

15.197 0.511 6.493 1.00 51.57

14.015 1.503 6.527 1.00 51.57

13.644 1.968 7.923 1.00 51.57

12.957 2.748 7.832 1.00 0.00

14.484 2.282 8.443 1.00 0.00
ATOM 1157 CA LYS 126
ATOM 1158 CB LYS 126
ATOM 1159 CG LYS 126
ATOM 1160 CD LYS 126
ATOM 1161 CE LYS 126
ATOM 1161 CE LYS 126
ATOM 1162 NZ LYS 126
ATOM 1163 HZ1 LYS 126
ATOM 1164 HZ2 LYS 126
ATOM 1165 HZ3 LYS 126
                                 13.181 1.168 8.404 1.00 0.00
ATOM 1166 C LYS 126
                                 17.748 -2.698 5.085 1.00 30.95
ATOM 1167 O LYS 126
                                 18.061 -2.736 3.879 1.00 51.57
ATOM 1168 N SER 127
                                 18.146 -3.613 5.965 1.00 32.50
ATOM 1169 H SER 127
                                 17.905 -3.620 6.895 1.00 0.00
ATOM 1170 CA SER 127
                                  19.025 -4.696 5.592 1.00 32.50
ATOM 1171 CB SER 127
                                  20.440 -4.166 5.654 1.00 20.03
ATOM 1172 OG SER 127
                                20.651 -3.373 4.508 1.00 20.03
ATOM 1173 HG SER 127 21.604 -3.219 4.429 1.00 0.00
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1174 C SER 127 1175 O SER 127 1176 N GLY 128 1177 H GLY 128 1178 CA GLY 128 1179 C GLY 128 1180 O GLY 128 1181 N THR 129 1182 H THR 129 1183 CA THR 129 1184 CB THR 129 1185 OG1 THR 129 1186 HG1 THR 129 1187 CG2 THR 129 1188 C THR 129 1188 C THR 129 1189 O THR 129 1190 N ALA 130	18.933 -5.982 6.422 1.00 32.50 19.897 -6.775 6.431 1.00 20.03 17.783 -6.225 7.060 1.00 17.70 17.029 -5.612 6.946 1.00 0.00 17.688 -7.394 7.919 1.00 17.70 18.489 -6.780 9.030 1.00 17.70 18.194 -5.616 9.363 1.00 39.29 19.501 -7.456 9.586 1.00 16.49 19.693 -8.361 9.284 1.00 0.00 20.307 -6.827 10.649 1.00 16.49 21.541 -6.114 10.044 1.00 22.14 21.126 -5.261 8.967 1.00 22.14 20.258 -4.909 9.157 1.00 0.00 22.536 -7.104 9.492 1.00 22.14 19.561 -5.772 11.544 1.00 16.49 19.179 -4.677 11.103 1.00 22.14	
ATOM	1200 OG SER 131	23.391 -4.840 15.178 1.00 11.54	.L
ATOM	1201 HG SER 131	23.005 -5.028 14.331 1.00 0.00	L
MOTA	1202 C SER 131	21.053 -2.961 17.336 1.00 10.10	L
ATOM	1203 O SER 131	21.054 -1.778 17.033 1.00 11.54	L
MOTA	1204 N VAL 132	20.789 -3.376 18.564 1.00 14.94	L
ATOM	1205 H VAL 132	20.775 -4.331 18.768 1.00 0.00	L.
ATOM ATOM	1206 CA VAL 132 1207 CB VAL 132	20.519 -2.405 19.615 1.00 14.94 19.156 -2.666 20.302 1.00 16.62	L
ATOM	1207 CB VAL 132	18.610 -3.995 19.875 1.00 16.62	L
ATOM	1209 CG2 VAL 132	19.269 -2.590 21.784 1.00 16.62	Ĺ
ATOM	1210 C VAL 132	21.685 -2.476 20.601 1.00 14.94	L
ATOM	1211 O VAL 132	22.001 -3.553 21.116 1.00 16.62	L
ATOM	1212 N VAL 133	22.334 -1.324 20.837 1.00 5.40	L
ATOM ATOM	1213 H VAL 133 1214 CA VAL 133	22.005 -0.509 20.408 1.00 0.00 23.511 -1.244 21.705 1.00 5.40	L
ATOM	1215 CB VAL 133		Ĺ
ATOM	1216 CG1 VAL 133	25.769 -0.073 21.968 1.00 17.26	L
MOTA	1217 CG2 VAL 133	25.070 -0.964 19.769 1.00 17.26	L
MOTA	1218 C VAL 133	23.225 -0.779 23.114 1.00 5.40	L
ATOM	1219 O VAL 133	22.381 0.065 23.322 1.00 17.26	L
MOTA MOTA	1220 N CYS 134 1221 H CYS 134	23.935 -1.327 24.091 1.00 2.00 24.608 -2.000 23.877 1.00 0.00	L L
ATOM	1222 CA CYS 134	23.726 -0.929 25.472 1.00 2.00	Ĺ
ATOM	1223 C CYS 134	25.052 -0.477 25.964 1.00 2.00	L
ATOM	1224 O CYS 134	26.035 -1.175 25.756 1.00 18.14	L
MOTA	1225 CB CYS 134	23.232 -2.092 26.358 1.00 18.14	Ļ
MOTA MOTA	1226 SG CYS 134 1227 N LEU 135	22.878 -1.484 28.058 1.00 18.14 25.081 0.696 26.590 1.00 6.88	Ļ
ATOM	1228 H LEU 135	24.261 1.174 26.678 1.00 0.00	L L
ATOM	1229 CA LEU 135	26.307 1.297 27.142 1.00 6.88	Ĺ
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ATOM 1230 CB LEU 135
                                   26.474 2.749 26.660 1.00 4.87
                                   27.734 3.310 25.985 1.00 4.87
 ATOM 1231 CG LEU 135
 ATOM 1232 CD1 LEU 135
                                  27.836 4.796 26.220 1.00 4.87
                                  28.935 2.601 26.485 1.00 4.87
 ATOM 1233 CD2 LEU 135
 ATOM 1234 C LEU 135
                                   26.233 1.357 28.669 1.00 6.88
                                   ATOM 1235 O LEU 135
 ATOM 1236 N LEU 136
 ATOM 1237 H LEU 136
                                    27.499 1.232 30.793 1.00 13.05
 ATOM 1238 CA LEU 136
ATOM 1239 CB LEU 136
ATOM 1240 CG LEU 136
ATOM 1241 CD1 LEU 136
                                    27.707 -0.144 31.432 1.00 13.07
                                   26.508 -1.043 31.638 1.00 13.07
                                   25.967 -1.390 30.305 1.00 13.07
                                  26.888 -2.249 32.415 1.00 13.07 L
 ATOM 1242 CD2 LEU 136
 ATOM 1243 C LEU 136
                                   28.792 2.030 30.942 1.00 13.05
                                   29.846 1.424 30.927 1.00 13.07
28.758 3.359 31.102 1.00 2.00
27.903 3.824 31.193 1.00 0.00
 ATOM 1244 O LEU 136
 ATOM 1245 N ASN 137
                                                                           L
 ATOM 1246 H ASN 137
                                                                           L
 ATOM 1247 CA ASN 137
                                  30.011 4.110 31.142 1.00 2.00
ATOM 1248 CB ASN 137
                                  29.812 5.422 30.431 1.00 16.72
                                  30.652 5.529 29.191 1.00 16.72
ATOM 1249 CG ASN 137
ATOM 1250 OD1 ASN 137
                                  31.744 6.074 29.199 1.00 16.72
ATOM 1251 ND2 ASN 137 30.151 4.995 28.114 1.00 16.72
ATOM 1252 HD21 ASN 137 29.537 4.244 28.213 1.00 0.00
ATOM 1253 HD22 ASN 137 30.413 5.380 27.251 1.00 0.00
ATOM 1254 C ASN 137 30.748 4.369 32.433 1.00 2.00 L
ATOM 1254 C ASN 137
ATOM 1255 O ASN 137
ATOM 1255 O ASN 137
ATOM 1256 N ASN 138
ATOM 1257 H ASN 138
ATOM 1258 CA ASN 138
ATOM 1259 CB ASN 138
ATOM 1261 OD1 ASN 138
ATOM 1262 ND2 ASN 138
ATOM 1263 HD21 ASN 138
ATOM 1264 HD22 ASN 138
ATOM 1265 C ASN 138
ATOM 1265 C ASN 138
ATOM 1265 C ASN 138
ATOM 1265 C ASN 138
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ATOM 1265 C ASN 138
ATOM 1265 C ASN 138
ATOM 1265 C ASN 138
ATOM 1265 C ASN 138
ATOM 1265 C ASN 138
ATOM 1265 C ASN 138 32.556 4.071 34.870 1.00 2.00
ATOM 1266 O ASN 138 32.232 4.851 35.734 1.00 17.34
ATOM 1267 N PHE 139 32.619 2.787 35.051 1.00 2.50
ATOM 1268 H PHE 139
                                  32.925 2.202 34.327 1.00 0.00
ATOM 1269 CA PHE 139 32.248 2.243 36.291 1.00 2.50
ATOM 1270 CB PHE 139
                                 31.069 1.262 36.086 1.00 2.00
ATOM 1271 CG PHE 139
                                  31.333 0.149 35.103 1.00 2.00
ATOM 1272 CD1 PHE 139
ATOM 1273 CD2 PHE 139
ATOM 1274 CE1 PHE 139
ATOM 1275 CE2 PHE 139
                                  30.939 0.275 33.788 1.00 2.00
                                  31.924 -1.028 35.515 1.00 2.00
                                   31.128 -0.758 32.875 1.00 2.00
                                  32.124 -2.071 34.627 1.00 2.00
ATOM 1276 CZ PHE 139
                                  31.724 -1.936 33.285 1.00 2.00
ATOM 1277 C PHE 139
                                  33.487 1.555 36.831 1.00 2.50
ATOM 1278 O PHE 139
                                  34.483 1.413 36.138 1.00 2.00
ATOM 1279 N TYR 140
                                  33.398 1.124 38.085 1.00 24.08
                                  32.555 1.257 38.572 1.00 0.00
ATOM 1280 H TYR 140
                                 34.490 0.450 38.762 1.00 24.08
ATOM 1281 CA TYR 140
                                   35.579 1.436 39.083 1.00 9.88
36.830 0.770 39.587 1.00 9.88
ATOM 1282 CB TYR 140
                                                                           L
ATOM 1283 CG TYR 140
ATOM 1284 CD1 TYR 140 37.882 0.490 38.701 1.00 9.88
ATOM 1285 CE1 TYR 140 39.022 -0.117 39.113 1.00 9.88
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ATOM	1286	CD2 TYF	R 140	36.971 0.412 40.921 1.00 9.88	L
ATOM		CE2 TYR		38.108 -0.200 41.349 1.00 9.88	Ľ
ATOM		CZ TYR	140		
				39.139 -0.467 40.430 1.00 9.88	Ļ
ATOM		OH TYR		40.286 -1.109 40.819 1.00 9.88	L
ATOM		HH TYR		40.274 -1.259 41.765 1.00 0.00	L
ATOM	1291		140	34.015 -0.150 40.065 1.00 24.08	L
ATOM	1292		140	33.158 0.421 40.737 1.00 9.88	L
ATOM	1293		141	34.508 -1.342 40.410 1.00 8.09	L
MOTA		CD PRO		34.187 -2.018 41.665 1.00 5.02	L
ATOM	1295	CA PRO	141	35.452 -2.148 39.660 1.00 8.09	L
ATOM		CB PRO		35.793 -3.268 40.614 1.00 5.02	L
ATOM	1297	CG PRO	141	34.598 -3.411 41.397 1.00 5.02	L
ATOM	1298	C PRO	141	34.753 -2.662 38.438 1.00 8.09	L
MOTA	1299	O PRO	141	33.621 -2.277 38.148 1.00 5.02	L
MOTA	1300	N ARG	142	35.423 -3.565 37.748 1.00 7.05	L
MOTA	1301	H ARG	142	36.279 -3.868 38.095 1.00 0.00	L
ATOM	1302	CA ARG	142	34.913 -4.125 36.511 1.00 7.05	L
MOTA	1303	CB ARG	142	36.056 -4.706 35.756 1.00 18,45	L
ATOM		CG ARG		35.939 -4.448 34.364 1.00 18.45	L
ATOM		CD ARG		36.341 -5.640 33.685 1.00 18.45	L.
ATOM	1306	NE ARG		37.761 -5.814 33.865 1.00 18.45	Ē
ATOM	1307	HE ARG		38.211 -5.335 34.594 1.00 0.00	L
ATOM		CZ ARG		38.493 -6.610 33.105 1.00 18.45	L
ATOM		NH1 ARG		37.918 -7.314 32.106 1.00 18.45	ī
ATOM		HH11 ARC			ī
ATOM		HH12 ARC			ī
ATOM		NH2 ARG		39.794 -6.683 33.344 1.00 18.45	Ĺ
ATOM		HH21 ARC			Ĺ
ATOM		HH22 ARC			Ĺ
ATOM	1315		142	33.771 -5.131 36.547 1.00 7.05	L
ATOM	1316	O ARG	142	32.932 -5.139 35.649 1.00 18.45	Ĺ
ATOM	1317		143	33.718 -5.968 37.570 0.00 20.00	L
ATOM		H GLU	143	34.416 -5.946 38.259 1.00 0.00	Ĺ
ATOM		CA GLU		32.622 -6.920 37.649 0.00 20.00	Ĺ
ATOM	1320		143	32.559 -7.551 39.040 0.00 20.00	Ĺ
ATOM		CG GLU	143	32.847 -6.580 40.172 0.00 20.00	Ĺ
ATOM		CD GLU		33.163 -7.283 41.477 0.00 20.00	L
ATOM	1323	OE1 GLU		32.336 -7.208 42.409 0.00 20.00	Ĺ
ATOM		OE2 GLU		34.239 -7.911 41.571 0.00 20.00	L
ATOM	1325	C GLU	143	31.314 -6.183 37.357 0.00 20.00	L
ATOM		O GLU	143	30.890 -5.304 38.105 0.00 20.00	Ĺ
ATOM	1327		144	30.694 -6.516 36.243 1.00 12.84	L
ATOM	1328		144	04 000 7 100 00 010 1 00 000	Ĺ
ATOM		CA ALA	144	29.420 -5.898 35.874 1.00 12.84	L
ATOM		CB ALA	144	29.685 -4.645 35.014 1.00 28.62	Ĺ
ATOM	1331		144	28.617 -6.912 35.091 1.00 12.84	Ĺ
ATOM	1332		144	29.207 -7.731 34.413 1.00 28.62	L
ATOM	1333		145	27.289 -6.865 35.185 1.00 11.04	L
ATOM	1334		145		Ĺ
ATOM		CA LYS	145	26.392 -7.793 34.457 1.00 11.04	L
ATOM		CB LYS	145	25.745 -8.773 35.431 1.00 17.90	L
ATOM		CG LYS	145	25.643 -10.222 34.955 1.00 17.90	
ATOM		CD LYS	145	24.229 -10.590 34.441 1.00 17.90	L
ATOM		CE LYS	145	24.169 -11.888 33.537 1.00 17.90	Ĺ
ATOM		NZ LYS	145	22.777 -12.494 33.336 1.00 17.90	
ATOM		HZ1 LYS	145	22.866 -13.505 33.116 1.00 0.00	L
, ti Oivi	1041	.,	170	22.000 -13.303 33.776 7.00 0.00	L

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ATOM 1342 HZ2 LYS 145
                             22.310 -12.007 32.545 1.00 0.00
 ATOM 1343 HZ3 LYS 145
                            22.218 -12.362 34.203 1.00 0.00
 ATOM 1344 C LYS 145
                            25.286 -7.075 33.649 1.00 11.04
 ATOM 1345 O LYS 145
                            24.666 -6.154 34.130 1.00 17.90
                            25.047 -7.516 32.416 1.00 3.15
 ATOM 1346 N VAL 146
 ATOM 1347 H VAL 146
ATOM 1348 CA VAL 146
ATOM 1349 CB VAL 146
                            25.572 -8.263 32.075 1.00 0.00
                           24.042 -6.942 31.543 1.00 3.15
                            24.645 -6.459 30.201 1.00 8.90
 ATOM 1350 CG1 VAL 146
                            23.566 -5.872 29.307 1.00 8.90
                           25.754 -5.448 30.447 1.00 8.90
 ATOM 1351 CG2 VAL 146
 ATOM 1352 C VAL 146
                            23.123 -8.076 31.207 1.00 3.15
 ATOM 1353 O VAL 146
                            23.563 -9.193 30.999 1.00 8.90
 ATOM 1354 N GLN 147
                            21.831 -7.798 31.160 1.00 7.60
 ATOM 1355 H GLN 147
                            21.530 -6.902 31.378 1.00 0.00
 ATOM 1356 CA GLN 147
                           20.855 -8.792 30.794 1.00 7.60
 ATOM 1357 CB GLN 147
                            20.001 -9.190 32.003 1.00 18.03
 ATOM 1358 CG GLN 147
                            19.905 -10.692 32.282 1.00 18.03
 ATOM 1359 CD GLN 147
                            19.984 -11.001 33.776 1.00 18.03
 ATOM 1360 OE1 GLN 147
                            20.937 -10.629 34.437 1.00 18.03
 ATOM 1361 NE2 GLN 147
                            18.972 -11.669 34.304 1.00 18.03
 ATOM 1362 HE21 GLN 147
                            18.318 -11.163 34.823 1.00 0.00
 ATOM 1363 HE22 GLN 147
                            18.938 -12.639 34.146 1.00 0.00
                                                              L
ATOM 1364 C GLN 147
                            20.009 -8.065 29.760 1.00 7.60 L
 ATOM 1365 O GLN 147
                            19.645 -6.908 29.943 1.00 18.03
                                                            L
ATOM 1366 N TRP 148
                            19.733 -8.750 28.663 1.00 14.46
ATOM 1367 H TRP 148
                            20.101 -9.650 28.544 1.00 0.00
ATOM 1368 CA TRP 148 18.903 -8.200 27.628 1.00 14.46
ATOM 1369 CB TRP 148
                            19.450 -8.527 26.260 1.00 2.49
ATOM 1370 CG TRP 148
                            20.476 -7.595 25.842 1.00 2.49
ATOM 1371 CD2 TRP 148
                             20.284 -6.288 25.354 1.00 2.49
ATOM 1372 CE2 TRP 148
                             21.544 -5.777 25.043 1.00 2.49
ATOM 1373 CE3 TRP 148
                            19.169 -5.488 25.150 1.00 2.49
ATOM 1374 CD1 TRP 148
                            21.802 -7.823 25.817 1.00 2.49
ATOM 1375 NE1 TRP 148
                             22.462 -6.746 25.337 1.00 2.49
ATOM 1376 HE1 TRP 148
                             23.434 -6.681 25.206 1.00 0.00
                                                             L
ATOM 1377 CZ2 TRP 148
                             21.725 -4.493 24.528 1.00 2.49
ATOM 1378 CZ3 TRP 148
                            19.349 -4.216 24.643 1.00 2.49
ATOM 1379 CH2 TRP 148
                             20.617 -3.737 24.339 1.00 2.49
ATOM 1380 C TRP 148
                            17.535 -8.797 27.736 1.00 14.46
ATOM 1381 O TRP 148
                            17.409 -9.998 27.735 1.00 2.49
ATOM 1382 N LYS 149
                           16.507 -7.958 27.833 1.00 4.98
                                                           L
ATOM 1383 H LYS 149
                           16.666 -6.990 27.869 1.00 0.00
ATOM 1384 CA LYS 149
                           15.146 -8.435 27.885 1.00 4.98
ATOM 1385 CB LYS 149
                            14.571 -8.173 29.269 1.00 7.57
ATOM 1386 CG LYS 149
                            15.513 -8.660 30.336 1.00 7.57
ATOM 1387 CD LYS 149
                            14.818 -9.421 31.410 1.00 7.57
ATOM 1388 CE LYS 149
                            14.342 -8.470 32.477 1.00 7.57
ATOM 1389 NZ LYS 149
                            15.159 -8.510 33.746 1.00 7.57
                            15.556 -9.465 33.884 1.00 0.00
ATOM 1390 HZ1 LYS 149
                           14.555 -8.266 34.549 1.00 0.00 L
15.934 -7.812 33.674 1.00 0.00 L
14.306 -7.802 26.784 1.00 4.98 L
ATOM 1391 HZ2 LYS 149
ATOM 1392 HZ3 LYS 149
ATOM 1393 C LYS 149
ATOM 1394 O LYS 149
                          14.103 -6.611 26.772 1.00 7.57
                        13.862 -8.616 25.839 1.00 2.00
14.132 -9.567 25.852 1.00 0.00
12.985 -8.149 24.780 1.00 2.00
ATOM 1395 N VAL 150
ATOM 1396 H VAL 150
ATOM 1397 CA VAL 150
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ATOM	1398 CB VAL 150	13,153 -8.896 23.483 1.00 9.10	L
ATOM	1399 CG1 VAL 150	12.102 -8.406 22.531 1.00 9.10	Ĺ
ATOM	1400 CG2 VAL 150	14.501 -8.608 22.923 1.00 9.10	Ē
ATOM	1401 C VAL 150	11.574 -8.356 25.324 1.00 2.00	L
ATOM	1402 O VAL 150	11.298 -9.371 25.997 1.00 9.10	Ĺ
ATOM	1403 N ASP 151	10.683 -7.398 25.045 1.00 27.28	L
ATOM	1404 H ASP 151	10.905 -6.706 24.399 1.00 0.00	Ĺ
ATOM	1405 CA ASP 151	9.379 -7.415 25.699 1.00 27.28	L
ATOM	1406 CB ASP 151	8.452 -8.474 25.111 1.00 18.53	Ē
ATOM	1407 CG ASP 151	7.789 -7.984 23.817 1.00 18.53	Ĺ.
ATOM	1408 OD1 ASP 151	7.706 -6.752 23.662 1.00 18.53	ī
ATOM	1409 OD2 ASP 151	7.377 -8.802 22.957 1.00 18.53	Ī
ATOM	1410 C ASP 151	9.814 -7.704 27.152 1.00 27.28	L
ATOM	1411 O ASP 151	10.677 -6.966 27.687 1.00 18.53	Ĺ
ATOM	1412 N ASN 152	9.317 -8.739 27.806 1.00 24.23	Ĺ
ATOM	1413 H ASN 152	8.668 -9.351 27.407 1.00 0.00	Ĺ
ATOM	1414 CA ASN 152	9.796 -8.922 29.180 1.00 24.23	L
ATOM	1415 CB ASN 152	8.625 -9.019 30.144 1.00 31.42	Ē
ATOM	1416 CG ASN 152	8.540 -7.829 31.070 1.00 31.42	Ĺ
ATOM	1417 OD1 ASN 152	9.556 -7.343 31.576 1.00 31.42	Ĺ
ATOM	1418 ND2 ASN 152	7.320 -7.346 31.303 1.00 31.42	Ĺ
ATOM	1419 HD21 ASN 152	6.811 -6.960 30.543 1.00 0.00	Ĺ
ATOM	1420 HD22 ASN 152	6.993 -7.398 32.210 1.00 0.00	Ĺ
ATOM	1421 C ASN 152	10.669 -10.150 29.395 1.00 24.23	Ĺ
ATOM	1422 O ASN 152	10.982 -10.495 30.542 1.00 31.42	Ē
ATOM	1423 N ALA 153	11.071 -10.778 28.287 1.00 12.91	Ĺ
ATOM	1424 H ALA 153	10.852 -10.385 27.425 1.00 0.00	Ĺ
ATOM	1425 CA ALA 153	11.803 -12.013 28.322 1.00 12.91	Ĺ
ATOM	1426 CB ALA 153	11.399 -12.846 27.130 1.00 22.36	Ĺ
ATOM	1427 C ALA 153	13.305 -11.859 28.366 1.00 12.91	L
ATOM	1428 O ALA 153	13.868 -11.025 27.679 1.00 22.36	Ĺ
ATOM	1429 N LEU 154	13.934 -12.703 29.178 1.00 17.56	Ĺ
ATOM	1430 H LEU 154	13.381 -13.339 29.680 1.00 0.00	L
ATOM	1431 CA LEU 154	15.361 -12.729 29.351 1.00 17.56	L
ATOM	1432 CB LEU 154	15.661 -13.493 30.630 1.00 25.88	L
ATOM	1433 CG LEU 154	17.148 -13.556 30.940 1.00 25.88	L
ATOM	1434 CD1 LEU 154	17.856 -14.556 29.976 1.00 25.88	Ĺ
ATOM	1435 CD2 LEU 154	17.754 -12.124 30.818 1.00 25.88	Ĺ
ATOM	1436 C LEU 154	16.000 -13.426 28.122 1.00 17.56	L
ATOM	1437 O LEU 154	15.797 -14.626 27.915 1.00 25.88	L
ATOM	1438 N GLN 155	16.786 -12.702 27.319 1.00 10.46	L
ATOM	1439 H GLN 155	16.955 -11.770 27.534 1.00 0.00	L
ATOM	1440 CA GLN 155	17.371 -13.300 26.131 1.00 10.46	L
ATOM	1441 CB GLN 155	17.816 -12.219 25.188 1.00 15.40	L
ATOM	1442 CG GLN 155	16.765 -11.233 24.923 1.00 15.40	. L
MOTA	1443 CD GLN 155	15.610 -11.812 24.148 1.00 15.40	L
MOTA	1444 OE1 GLN 155	14.483 -11.918 24.672 1.00 15.40	L
ATOM	1445 NE2 GLN 155	15.869 -12.181 22.890 1.00 15.40	L
ATOM	1446 HE21 GLN 155	16.408 -12.991 22.741 1.00 0.00	L
ATOM	1447 HE22 GLN 155	15.520 -11.624 22.166 1.00 0.00	L
ATOM	1448 C GLN 155	18.522 -14.259 26.381 1.00 10.46	L
MOTA	1449 O GLN 155	19.105 -14.275 27.478 1.00 15.40	L
ATOM	1450 N SER 156	18.853 -15.060 25.358 1.00 17.03	L
ATOM	1451 H SER 156	18.363 -14.991 24.509 1.00 0.00	L
ATOM	1452 CA SER 156	19.923 -16.032 25.487 1.00 17.03	L
ATOM	1453 CB SER 156	19.299 -17.401 25.664 1.00 29.40	L.

ATON	A 145	4 0	G SE	R 156	18 573 17 406 06 874 4 00 00 40	
ATON			G SE		20,70	١
ATON					21 127 16 142 24 542 4 00 47 00	.L
ATON					21.127 -16.142 24.512 1.00 17.03	Ļ
ATON					22.262 -16.147 24.966 1.00 29.40	L
ATON					20.944 -16.267 23.214 0.00 20.00 20.054 -16.287 22.808 1.00 0.00	Ļ
ATON		- • •	A GL			L.
ATON					22.153 -16.389 22.419 0.00 20.00	L
ATON					22.330 -15.359 21.331 0.00 20.00 22.919 -15.670 20.300 0.00 20.00	Ļ
ATON					21.844 -14.140 21.562 0.00 20.00	L
ATON					24 422 42 227 22 122 1 2 2 2	Ļ
ATON			A ASI		21.917 -13.083 20.563 0.00 20.00	L,
ATOM			B ASN		20.509 -12.854 20.013 0.00 20.00	L
ATOM			G ASI		20.071 -13.971 19.074 0.00 20.00	L
ATOM	1468		D1 AS		20.210 -15.158 19.390 0.00 20.00	L
ATOM			02 AS		19.551 -13.595 17.907 0.00 20.00	L L
ATOM			21 AS		0.00 L0.00	L
ATOM			22 AS			L
ATOM	1472		ASN	158	00 500 44 700 04 545 5 5 5	L
ATOM	1473	3 0	ASN	158	22.091 -10.684 20.662 0.00 20.00	Ĺ
ATOM	1474	N	SER	159	00 570 44 000 54 655 5 1	Ĺ
ATOM			SER	159	22 224 42 724 22 422 4 22 2 2 2	Ĺ
ATOM			SER		24.290 -10.730 22.414 0.00 20.00	L
ATOM			SER		23.801 -10.433 23.835 0.00 20.00	L
ATOM			SEF		24.870 -10.561 24.762 0.00 20.00	Ĺ
ATOM			SEF		25.379 -9.749 24.776 1.00 0.00	L
ATOM			SER	159	25.802 -10.967 22.468 0.00 20.00	L
ATOM	1481		SER	159	26.263 -12.092 22.598 0.00 20.00	L
ATOM	1482		GLN	160	26.546 -9.876 22.376 1.00 9.54 L	
ATOM ATOM	1483		GLN	160	26.088 -9.021 22.259 1.00 0.00 L	
ATOM			GLN GLN		28.021 -9.805 22.432 1.00 9.54 L	_
ATOM	1486		GLN		28.622 -9.645 21.054 1.00 14.62	L
ATOM			GLN		28.289 -10.713 20.106 1.00 14.62	L
ATOM	1488		1 GLN		29.473 -11.560 19.873 1.00 14.62	Ļ
ATOM			2 GLN		29.921 -11.684 18.742 1.00 14.62 30.022 -12.155 20.966 1.00 14.62	L
ATOM			21 GL		30.805 -12.724 20.863 1.00 0.00	Ļ
MOTA			22 GLN		29.593 -11.991 21.843 1.00 0.00	L
MOTA	1492		GLN	160	00 450 0 540 50 455	L
MOTA	1493	0	GLN -		28.459 -8.542 23.198 1.00 9.54 L 27.821 -7.491 23.085 1.00 14.62 L	
ATOM	1494	Ν	GLU	161	29.537 -8.651 23.969 1.00 2.00 L	•
ATOM	1495	Н	GLU	161	29.998 -9.513 24.045 1.00 0.00 L	
ATOM			GLU	161	30.047 -7.508 24.704 1.00 2.00 L	
ATOM			GLU	161	29.424 -7.395 26.049 1.00 6.51 L	
MOTA			GLU	161	29.447 -8.654 26.757 1.00 6.51 L	
MOTA			GLU	161	29.459 -8.450 28.227 1.00 6.51 L	
MOTA			1 GLU		30.552 -8.648 28.769 1.00 6.51 I	_
MOTA			2 GLU		28.406 -8.090 28.821 1.00 6.51 L	
MOTA MOTA	1502		GLU	161	31.543 -7.474 24.868 1.00 2.00 L	
ATOM	1503 1504		GLU	161	32.239 -8.452 24.653 1.00 6.51 L	
MOTA	1504			162	32.043 -6.286 25.167 1.00 2.00 L	
MOTA	1506			162 162	31.441 -5.511 25.245 1.00 0.00 L	
MOTA	1507			162	33.453 -6.099 25.370 1.00 2.00 L	
MOTA	1508			162	34.131 -5.850 24.023 1.00 11.42 L	
TOM	1509			162	34.526 -4.526 23.859 1.00 11.42 L 34.326 -4.252 22.958 1.00 0.00 L	
•••		—		102	34.320 -4.252 22.958 1.00 0.00 L	

ATOM	1510 C SER 162	33.617 -4.940 26.330 1.00 2.00	L
ATOM	1511 O SER 162	32.715 -4.092 26.483 1.00 11.42	Ĺ
ATOM		34.731 -4.966 27.047 1.00 10.12	Ĺ
ATOM	1513 H VAL 163	35.382 -5.689 26.915 1.00 0.00	L.
ATOM	1514 CA VAL 163	35.017 -3.968 28.042 1.00 10.12	L
ATOM	1515 CB VAL 163	35.213 -4.582 29.430 1.00 8.50	L
ATOM	1516 CG1 VAL 163	36.570 -5.080 29.587 1.00 8.50	L
ATOM	1517 CG2 VAL 163	34.991 -3.551 30.457 1.00 8.50	L
ATOM	1518 C VAL 163	36.253 -3.209 27.666 1.00 10.12	L
ATOM	1519 O VAL 163	37.071 -3.695 26.914 1.00 8.50	L
ATOM	1520 N THR 164	36,380 -1,995 28.172 1.00 4.54	Ĺ
ATOM	1521 H THR 164	35.680 -1.631 28.759 1.00 0.00	Ĺ
ATOM	1522 CA THR 164	37.540 -1.192 27.874 1.00 4.54	L
ATOM			
		37.235 0.267 28.022 1.00 2.08	L.
ATOM	1524 OG1 THR 164	36.639 0.528 29.296 1.00 2.08	Ļ
ATOM	1525 HG1 THR 164	37.336 0.827 29.894 1.00 0.00	L
ATOM	1526 CG2 THR 164	36.317 0.659 26.999 1.00 2.08	L
ATOM	1527 C THR 164	38.649 -1.504 28.826 1.00 4.54	L
MOTA	1528 O THR 164	38.461 -2.148 29.828 1.00 2.08	L
ATOM	1529 N GLU 165	39.832 -1.061 28.468 1.00 9.06	L
ATOM	1530 H GLU 165	39.924 -0.637 27.594 1.00 0.00	L
ATOM	1531 CA GLU 165	41.016 -1.177 29.303 1.00 9.06	L
ATOM	1532 CB GLU 165	42.228 -0.939 28.428 1.00 41.70	Ĺ
ATOM	1533 CG GLU 165	43.541 -1.199 29.070 1.00 41.70	Ĺ
ATOM	1534 CD GLU 165	44.013 -2.619 28.831 1.00 41.70	Ĺ
ATOM	1535 OE1 GLU 165	43.162 -3.379 28.293 1.00 41.70	Ĺ
ATOM	1536 OE2 GLU 165	45.201 -2.967 29.172 1.00 41.70	Ĺ
ATOM	1537 C GLU 165		
			Ļ
ATOM	1538 O GLU 165	39.959 0.902 29.937 1.00 41.70	.L
ATOM	1539 N GLN 166	41.455 0.055 31.350 1.00 9.20	L
ATOM	1540 H GLN 166	42.092 -0.653 31.570 1.00 0.00	L
ATOM	1541 CA GLN 166	41.257 1.153 32.281 1.00 9.20	L
ATOM	1542 CB GLN 166	42.145 0.962 33.467 1.00 10.66	L
ATOM	1543 CG GLN 166	41.459 0.289 34.548 1.00 10.66	L
ATOM	1544 CD GLN 166	42.147 0.521 35.819 1.00 10.66	L
MOTA	1545 OE1 GLN 166	43.265 0.048 36.030 1.00 10.66	L
ATOM	1546 NE2 GLN 166	41.507 1.262 36.689 1.00 10.66	L
MOTA	1547 HE21 GLN 166	40.801 0.850 37.229 1.00 0.00	L
ATOM	1548 HE22 GLN 166	41.758 2.210 36,773 1.00 0.00	L
ATOM	1549 C GLN 166	41.529 2.538 31.734 1.00 9.20	L
ATOM	1550 O GLN 166	42.552 2.766 31.065 1.00 10.66	ī
ATOM	1551 N ASP 167	40.639 3.476 32.052 1.00 5.36	L
ATOM	1552 H ASP 167	39.854 3.245 32.572 1.00 0.00	Ĺ
ATOM	1553 CA ASP 167	40.853 4.845 31.606 1.00 5.36	
ATOM	1554 CB ASP 167		Ļ
ATOM			L
	1555 CG ASP 167	39.784 7.140 31.412 1.00 10.40	Ŀ
ATOM	1556 OD1 ASP 167	39.745 7.260 30.147 1.00 10.40	L
MOTA	1557 OD2 ASP 167	39.875 8.124 32.182 1.00 10.40	L
ATOM	1558 C ASP 167	42.171 5.381 32.167 1.00 5.36	L
ATOM	1559 O ASP 167	42.659 4.998 33.234 1.00 10.40	L
ATOM	1560 N SER 168	42.732 6.291 31.412 1.00 25.23	L
ATOM	1561 H SER 168	42.273 6.552 30.582 1.00 0.00	L
ATOM	1562 CA SER 168	43.987 6.941 31.745 1.00 25.23	L
ATOM	1563 CB SER 168	44.571 7.513 30.436 1.00 36.81	L
ATOM	1564 OG SER 168	43.542 7.607 29.428 1.00 36.81	L
MOTA	1565 HG SER 168	43.517 8.502 29.077 1.00 0.00	L
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ATOM	1 1566 C SER 168	43.767 8.073 32.768 1.00 25.23	
ATON		44.631 8.347 33.585 1.00 36.81	L
ATOM		42.593 8.701 32.674 1.00 17.08	L
ATOM		41.964 8.374 31.981 1.00 0.00	Ĺ
ATOM		42.165 9.815 33.498 1.00 17.08	L
ATOM		41.207 10.676 32.661 1.00 34.03	
ATOM	1 1572 CG LYS 169	41.880 11.722 31.754 1.00 34.03	
ATOM	1 1573 CD LYS 169	41.436 11.612 30.270 1.00 34.03	
ATOM		40.079 10.793 30.040 1.00 34.03	
ATOM		39.629 10.490 28.599 1.00 34.03	L
ATOM		39.731 9.461 28.435 1.00 0.00	L
ATOM		40.214 10.996 27.904 1.00 0.00	
ATOM		38.625 10.734 28.456 1.00 0.00	
ATOM ATOM		41.488 9.480 34.864 1.00 17.08	L
ATOM		41.840 10.079 35.878 1.00 34.03	L
ATOM		40.516 8.546 34.871 1.00 7.40	L
ATOM		40.295 8.087 34.037 1.00 0.00 39.744 8.173 36.084 1.00 7.40	L.
ATOM		39.744 8.173 36.084 1.00 7.40 38.273 8.519 35.865 1.00 14.75	Ļ
ATOM		37.676 7.785 34.676 1.00 14.75	L
ATOM		38.369 6.881 34.229 1.00 14.75	_
ATOM		36.569 8.095 34.193 1.00 14.75	
ATOM	1588 C ASP 170	39.789 6.735 36.554 1.00 7.40	L
ATOM		39.139 6.371 37.509 1.00 14.75	L
ATOM		40.516 5.904 35.846 1.00 13.37	L
ATOM	1591 H SER 171	40.990 6.241 35.048 1.00 0.00	L
ATOM	1592 CA SER 171	40.645 4.507 36.241 1.00 13.37	L
ATOM	1593 CB SER 171	41.218 4.446 37.680 1.00 22.93	L
ATOM ATOM	1594 OG SER 171 1595 HG SER 171	42.349 5.301 37.825 1.00 22.93	L
ATOM	1595 HG SER 171 1596 C SER 171	42.059 6.210 37.918 1.00 0.00	.L
ATOM	1597 O SER 171	39.394 3.601 36.120 1.00 13.37 39.395 2.437 36.524 1.00 22.93	L
ATOM	1598 N THR 172	39.395 2.437 36.524 1.00 22.93 38.336 4.131 35.530 1.00 18.25	L
ATOM	1599 H THR 172	38.395 5.059 35.213 1.00 0.00	L
MOTA	1600 CA THR 172	37:098 3.387 35.355 1.00 18.25	L
MOTA	1601 CB THR 172	35.917 4.361 35.221 1.00 9.35	Ĺ
MOTA	1602 OG1 THR 172	36.094 5.120 34.034 1.00 9.35	L
ATOM	1603 HG1 THR 172	36.526 4.577 33.367 1.00 0.00	Ĺ
ATOM	1604 CG2 THR 172	35.856 5.334 36.388 1.00 9.35	L
MOTA	1605 C THR 172	37.128 2.480 34.124 1.00 18.25	L
ATOM	1606 O THR 172	38.089 2.445 33.388 1.00 9.35	L
ATOM ATOM	1607 N TYR 173 1608 H TYR 173	36.061 1.731 33.923 1.00 8.71 35.317 1.785 34.577 1.00 0.00	Ļ
ATOM	1609 CA TYR 173		Ļ
ATOM	1610 CB TYR 173	35.956 0.831 32.794 1.00 8.71 35.692 -0.614 33.244 1.00 8.14	L
ATOM	1611 CG TYR 173	36.872 -1.190 33.932 1.00 8.14	L
ATOM	1612 CD1 TYR 173	37.960 -1.602 33.208 1.00 8.14	Ĺ
ATOM	1613 CE1 TYR 173	39.061 -2.125 33.832 1.00 8.14	Ĺ
ATOM	1614 CD2 TYR 173	36.915 -1.303 35.329 1.00 8.14	Ē
ATOM	1615 CE2 TYR 173	38.016 -1.827 35.960 1.00 8.14	Ĺ
MOTA	1616 CZ TYR 173	39.089 -2.248 35.202 1.00 8.14	L
ATOM	1617 OH TYR 173	40.168 -2.862 35.800 1.00 8.14	L
ATOM ATOM	1618 HH TYR 173 1619 C TYR 173	39.933 -3.077 36.713 1.00 0.00	, L
ATOM	1620 O TYR 173	34.781 1.310 32.017 1.00 8.71	Ļ
ATOM	1621 N SER 174	34.196 2.323 32.378 1.00 8.14	L
., 0101	1021 14 0210 174	34.450 0.597 30.942 1.00 2.10	L

ATOM	1622 H SER 174	35.002 -0.191 30.725 1.00 0.00	,
ATOM	1623 CA SER 174		Ļ
ATOM	1624 CB SER 174	33.309 0.905 30.115 1.00 2.10	Ļ
: : :		33.678 1.993 29.135 1.00 2.27	Ļ
ATOM	1625 OG SER 174	32.973 3.164 29.424 1.00 2.27	L
ATOM	1626 HG SER 174	32.028 2.963 29.420 1.00 0.00	L
ATOM	1627 C SER 174	32.955 -0.395 29.399 1.00 2.10	L
ATOM	1628 O SER 174	33.833 -1.174 29.110 1.00 2.27	L
ATOM	1629 N LEU 175	31.675 -0.613 29.124 1.00 11.98	L
ATOM	1630 H LEU 175	31.006 0.063 29.357 1.00 0.00	L
ATOM	1631 CA LEU 175	31.252 -1.830 28.485 1.00 11.98	L
ATOM	1632 CB LEU 175	30.816 -2.851 29.561 1.00 8.34	L
MOTA	1633 CG LEU 175	29.743 -3.982 29.501 1.00 8.34	L
ATOM	1634 CD1 LEU 175	28.663 -3.746 28.540 1.00 8.34	L
ATOM	1635 CD2 LEU 175	30.393 -5.229 29.176 1.00 8.34	L
ATOM	1636 C LEU 175	30.132 -1.598 27.504 1.00 11.98	L
ATOM	1637 O LEU 175	29.162 -0.906 27.822 1.00 8.34	L
MOTA	1638 N SER 176	30.278 -2.228 26.337 1.00 11.37	L
ATOM	1639 H SER 176	31.085 -2.758 26.196 1.00 0.00	L
ATOM	1640 CA SER 176	29.310 -2.175 25.260 1.00 11.37	L
MOTA	1641 CB SER 176	30.048 -1.984 23.946 1.00 14.95	Ĺ
ATOM	1642 OG SER 176	29.532 -0.900 23.225 1.00 14.95	L
ATOM	1643 HG SER 176	28.578 -0.893 23.351 1.00 0.00	Ĺ
MOTA	1644 C SER 176	28.591 -3.514 25.176 1.00 11.37	L
ATOM	1645 O SER 176	29.231 -4.575 25.269 1.00 14.95	L
ATOM	1646 N SER 177	27.274 -3.504 25.017 1.00 10.84	Ē
ATOM	1647 H SER 177	26.777 -2.667 25.002 1.00 0.00	Ĺ
ATOM	1648 CA SER 177	26.573 -4.764 24.849 1.00 10.84	L,
ATOM	1649 CB SER 177	25.825 -5.154 26.100 1.00 3.51	L
ATOM	1650 OG SER 177	25.484 -6.527 26.035 1.00 3.51	ī
ATOM	1651 HG SER 177	24.808 -6.736 26.674 1.00 0.00	Ĺ
ATOM	1652 C SER 177	25.636 -4.645 23.666 1.00 10.84	Ĺ
ATOM	1653 O SER 177	24.780 -3.791 23.645 1.00 3.51	Ē
ATOM	1654 N THR 178	25.829 -5.503 22.664 1.00 9.41	Ĺ
MOTA	1655 H THR 178	26.537 -6.172 22.747 1.00 0.00	ī
ATOM	1656 CA THR 178	25.009 -5.466 21.466 1.00 9.41	Ĺ
MOTA	1657 CB THR 178	25.859 -5.393 20.197 1.00 10.37	ī
ATOM	1658 OG1 THR 178	26.752 -4.286 20.288 1.00 10.37	L
ATOM	1659 HG1 THR 178	26.255 -3.497 20.538 1.00 0.00	L
ATOM	1660 CG2 THR 178	24.972 -5.243 18.974 1.00 10.37	L
ATOM	1661 C THR 178	24.122 -6.639 21.295 1.00 9.41	L
ATOM	1662 O THR 178	24.589 -7.747 21.231 1.00 10.37	Ĺ
ATOM	1663 N LEU 179	22.845 -6.377 21.169 1.00 2.00	L
ATOM	1664 H LEU 179	22.563 -5.444 21.220 1.00 0.00	Ī
ATOM	1665 CA LEU 179	21.849 -7.405 20.971 1.00 2.00	L
ATOM	1666 CB LEU 179	20.618 -7.113 21.848 1.00 12.38	L
ATOM	1667 CG LEU 179	19.394 -8.001 21.611 1.00 12.38	Ĺ
ATOM	1668 CD1 LEU 179	19.575 -9.274 22.392 1.00 12.38	,Ľ
ATOM	1669 CD2 LEU 179	18.111 -7.299 22.040 1.00 12.38	Ĺ
ATOM	1670 C LEU 179	21.474 -7.352 19.493 1.00 2.00	L
ATOM	1671 O LEU 179	20.786 -6.469 19.069 1.00 12.38	Ĺ
ATOM	1672 N THR 180	21.952 -8.307 18.712 1.00 13.40	Ĺ
ATOM	1673 H THR 180	22.505 -9.010 19.111 1.00 0.00	Ĺ
ATOM	1674 CA THR 180	21.695 -8.368 17.273 1.00 13.40	Ĺ
ATOM	1675 CB THR 180	22.892 -8.937 16.550 1.00 13.48	Ĺ
ATOM	1676 OG1 THR 180	24.074 -8.255 16.977 1.00 13.48	Ĺ
ATOM	1677 HG1 THR 180	24.702 -8.873 17.353 1.00 0.00	Ĺ
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ATOM	1 1678 CG2 THR 180	22.725 2.772 47.772 4.724	
ATON			-
		20.499 -9.223 16.920 1.00 13.40 L	
ATOM		20.474 -10.407 17.184 1.00 13.48 L	-
ATOM		19.507 -8.618 16.309 1.00 22.07 L	
ATOM	1 1682 H LEU 181	19.566 -7.686 16.091 1.00 0.00 L	
ATOM		18.320 -9.351 15.969 1.00 22.07 L	
ATOM		4 m 4 m = :	
ATOM			
ATOM		17.085 -9.016 18.208 1.00 16.56 L	
		16.410 -7.899 18.921 1.00 16.56 L	_
ATOM			L
ATOM		18.030 -9.264 14.479 1.00 22.07 L	
ATOM		18.559 -8.369 13.787 1.00 16.56 L	
ATOM	1690 N SER 182	17.208 -10.196 13.985 1.00 18.81 L	
ATOM	1691 H SER 182	16.890 -10.920 14.565 1.00 0.00 L	
ATOM		16.774 -10.149 12.595 1.00 18.81 L	
ATOM		45,000 44,400 40,000 1 1-	
ATOM			
ATOM		14.619 -11.288 12.612 1.00 10.52 I	_
ATOM		14.066 -11.220 11.823 1.00 0.00 L	
	1696 C SER 182	15.813 -8.938 12.558 1.00 18.81 L	
ATOM		15.189 -8.588 13.572 1.00 10.52 L	
ATOM	1698 N LYS 183	15.709 -8.300 11.404 1.00 13.50 L	
ATOM	1699 H LYS 183	16.233 -8.611 10.630 1.00 0.00 L	
ATOM	1700 CA LYS 183	14.842 -7.148 11.251 1.00 13.50 L	
ATOM	1701 CB LYS 183	14.982 -6.583 9.823 1.00 32.48 L	
ATOM	1702 CG LYS 183	14.491 -5.153 9.629 1.00 32.48 L	
ATOM	1703 CD LYS 183	14.040 4.044 0.000 4.00.00 4.	
ATOM	1704 CE LYS 183		
ATOM	1705 NZ LYS 183	40.050	
ATOM	1706 HZ1 LYS 183		
ATOM		12.999 -2.050 6.883 1.00 0.00 L	
ATOM		14.554 -2.699 7.100 1.00 0.00 L	
	1708 HZ3 LYS 183	13.825 -1.813 8.353 1.00 0.00 L	
ATOM	1709 C LYS 183	13.388 -7.533 11.519 1.00 13.50 L	
ATOM	1710 O LYS 183	12.514 -6.687 11.707 1.00 32.48 L	
ATOM	1711 N ALA 184	13.134 -8.822 11.573 1.00 13.68 L	
ATOM	1712 H ALA 184	13.855 -9.481 11.494 1.00 0.00 L	
ATOM	1713 CA ALA 184	11.777 -9.276 11.753 1.00 13.68 L	
ATOM	1714 CB ALA 184	11.490 -10.404 10.794 1.00 28.11 L	
MOTA	1715 C ALA 184	11.438 -9.684 13.142 1.00 13.68 L	
ATOM	1716 O ALA 184	10.262 -9.850 13.445 1.00 28.11 L	
ATOM	1717 N ASP 185	10 100 0 000	
ATOM	1718 H ASP 185		
ATOM	1719 CA ASP 185	13.360 -9.834 13.679 1.00 0.00 L	
ATOM		12.131 -10.195 15.385 1.00 21.27 L	
ATOM		13.305 -10.858 16.112 1.00 37.40 L	
	1721 CG ASP 185	13.366 -12.362 15.929 1.00 37.40 L	
ATOM	1722 OD1 ASP 185	12.383 -13.007 15.473 1.00 37.40 L	
MOTA	1723 OD2 ASP 185	14.438 -12.909 16.250 1.00 37.40 L	
ATOM	1724 C ASP 185 .	11.918 -8.808 16.018 1.00 21.27 L	
ATOM	1725 O ASP 185	11.051 -8.605 16.885 1.00 37.40 L	
ATOM	1726 N TYR 186	12.730 -7.866 15.544 1.00 31.20 L	
ATOM	1727 H TYR 186	13.375 -8.105 14.848 1.00 0.00 L	
MOTA	1728 CA TYR 186	12.687 -6.499 16.027 1.00 31.20 L	
ATOM	1729 CB TYR 186	40 040 5 000 45	
ATOM	1730 CG TYR 186	13.848 -5.668 15.447 1.00 22.82 L	
ATOM	1731 CD1 TYR 186	13.985 -4.367 16.158 1.00 22.82 L	
ATOM		14.202 -4.334 17.524 1.00 22.82 L	
		14.183 -3.161 18.217 1.00 22.82 L	
ATOM	1733 CD2 TYR 186	13.766 -3.175 15.501 1.00 22.82 L	

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ATOM	1734 CE2 TYR 186	13.748 -1.976 16.196 1.00 22.82)
ATOM	1735 CZ TYR 186	13.950 -1.989 17.553 1.00 22.82	
ATOM	1736 OH TYR 186	13.854 -0.818 18.246 1.00 22.82	
ATOM	1737 HH TYR 186	14.631 -0.275 18.070 1.00 0.00	. L
ATOM			
	1738 C TYR 186		Ļ
ATOM	1739 O TYR 186	10.802 -5.035 16.403 1.00 22.82	L
ATOM	1740 N GLU 187	10.832 -6.312 14.514 1.00 26.76	L
ATOM	1741 H GLU 187	11.336 -6.961 13.990 1.00 0.00	L
ATOM	1742 CA GLU 187	9.538 -5.873 14.021 1.00 26.76	L
ATOM	1743 CB GLU 187	9.386 -6.376 12.590 1.00 41.55	L
ATOM	1744 CG GLU 187	8.013 -6.157 11.975 1.00 41.55	L
ATOM	1745 CD GLU 187	7.299 -7.466 11.509 1.00 41.55	L
ATOM	1746 OE1 GLU 187	6.035 -7.412 11.359 1.00 41.55	L
MOTA	1747 OE2 GLU 187	7.990 -8.517 11.296 1.00 41.55	L
MOTA	1748 C GLU 187	8.492 -6.526 14.966 1.00 26.76	L
MOTA	1749 O GLU 187	7.434 -5.962 15.227 1.00 41.55	L
MOTA	1750 N LYS 188	8.872 -7.687 15.506 1.00 22.56	L
ATOM	1751 H LYS 188	9.770 -8.008 15.277 1.00 0.00	L
MOTA	1752 CA LYS 188	8.089 -8.561 16.415 1.00 22.56	L
MOTA	1753 CB LYS 188	8.666 -9.985 16.385 1.00 29.39	Ē
ATOM	1754 CG LYS 188	7.692 -11.076 15.945 1.00 29.39	L
ATOM	1755 CD LYS 188	8,191 -11.802 14,703 1,00 29,39	Ĺ
ATOM	1756 CE LYS 188	8.991 -13.090 15.059 1.00 29.39	Ĺ
ATOM	1757 NZ LYS 188	9.549 -13.145 16.460 1.00 29.39	Ĺ
ATOM	1758 HZ1 LYS 188	10.123 -12.288 16.598 1.00 0.00	_
ATOM	1759 HZ2 LYS 188	10.169 -13.976 16.534 1.00 0.00	Ĺ
ATOM	1760 HZ3 LYS 188	8.797 -13.206 17.177 1.00 0.00	Ĺ
ATOM	1761 C LYS 188	7.938 -8.187 17.889 1.00 22.56	. –
ATOM	1762 O LYS 188	7.299 -8.905 18.657 1.00 29.39	L
ATOM	1763 N HIS 189	8.510 -7.080 18.299 1.00 10.26	Ĺ
ATOM	1764 H HIS 189	9.006 -6.512 17.670 1.00 0.00	_
ATOM	1765 CA HIS 189	8.391 -6.723 19.684 1.00 10.26	L,
ATOM	1766 CB HIS 189		L
ATOM	1767 CG HIS 189		L
ATOM	1768 CD2 HIS 189		L
ATOM	1769 ND1 HIS 189	10.371 -9.689 19.617 1.00 32.11	Ļ
ATOM	1770 HD1 HIS 189	8.548 -9.699 20.808 1.00 32.11 7.779 -9.395 21.323 1.00 0.00	Ļ
ATOM	1771 CE1 HIS 189		L,
ATOM	1771 CETTIS 189		L
ATOM	1772 NE2 HIS 189	9.921 -10.977 19.778 1.00 32.11 10.332 -11.788 19.408 1.00 0.00	L
ATOM	1774 C HIS 189		L
ATOM	1774 C 1113 189	8.391 -5.257 20.002 1.00 10.26	Ļ
ATOM	1776 N LYS 190	8.978 -4.429 19.280 1.00 32.11	Ļ
ATOM		7.740 -4.955 21.124 1.00 21.55	Ļ
		7.376 -5.694 21.642 1.00 0.00	L.
MOTA		7.538 -3.593 21.624 1.00 21.55	L
ATOM	1779 CB LYS 190	6.254 -3.549 22.447 0.00 20.00	L
ATOM	1780 CG LYS 190	6.060 -2.279 23.229 0.00 20.00	Ļ
MOTA	1781 CD LYS 190	5.318 -1.254 22.396 0.00 20.00	L
ATOM ATOM	1782 CE LYS 190 1783 NZ LYS 190	6.270 -0.251 21.747 0.00 20.00	L
		5.551 0.699 20.841 0.00 20.00	L
MOTA		4.548 0.426 20.784 1.00 0.00	L
ATOM		5.970 0.658 19.888 1.00 0.00	L
ATOM		5.629 1.668 21.212 1.00 0.00	L
ATOM	1787 C LYS 190	8.683 -3.054 22.449 1.00 21.55	Ļ
ATOM	1788 O LYS 190	9.372 -2.134 22.018 1.00 20.00	L
ATOM	1789 N VAL 191	8.901 -3.642 23.621 1.00 2.00	L

ATOM ATOM		8.358 -4.419 23.881 1.00 0.00	L
ATOM		9.934 -3.144 24.502 1.00 2.00 9.311 -2.820 25.898 1.00 13.72	L
ATOM			L L
ATOM			Ĺ
ATOM		11.245 -3.911 24.652 1.00 2.00	L
ATOM	1796 O VAL 191	11.276 -5.110 24.970 1.00 13.72	Ĺ
ATOM	1797 N TYR 192	12.317 -3.154 24.421 1.00 29.02	L
ATOM	1798 H TYR 192	12.148 -2.222 24.188 1.00 0.00	L
ATOM	1799 CA TYR 192	13.702 -3.595 24.482 1.00 29.02	L
ATOM ATOM	1800 CB TYR 192 1801 CG TYR 192	14.422 -3.150 23.216 1.00 23.95 13.973 -3.986 22.065 1.00 23.95	Ļ
ATOM	1802 CD1 TYR 192		Ļ
ATOM	1803 CE1 TYR 192		L L
ATOM	1804 CD2 TYR 192		Ĺ
ATOM	1805 CE2 TYR 192	12.384 -4.389 20.280 1.00 23.95	Ĺ
ATOM	1806 CZ TYR 192	12.910 -5.661 20.108 1.00 23.95	Ļ
ATOM	1807 OH TYR 192	12.347 -6.471 19.138 1.00 23.95	L
ATOM	1808 HH TYR 192	11.854 -5.923 18.520 1.00 0.00	L
ATOM ATOM	1809 C TYR 192	14.368 -2.987 25.708 1.00 29.02	L
ATOM	1810 O TYR 192 1811 N ALA 193	14.411 -1.758 25.828 1.00 23.95 14.900 -3.844 26.599 1.00 6.43	Ļ
ATOM	1812 H ALA 193	14.900 -3.844 26.599 1.00 6.43 14.876 -4.810 26.413 1.00 0.00	L L
ATOM	1813 CA ALA 193	15.500 -3.360 27.811 1.00 6.43	Ŀ
ATOM	1814 CB ALA 193	14.624 -3.674 28.975 1.00 3.76	Ĺ
ATOM	1815 C ALA 193	16.869 -3.853 28.113 1.00 6.43	L
ATOM	1816 O ALA 193	17.225 -4.965 27.780 1.00 3.76	L
ATOM	1817 N CYS 194	17.602 -3.004 28.820 1.00 8.18	L
ATOM ATOM	1818 H CYS 194 1819 CA CYS 194	17.207 -2.153 29.055 1.00 0.00	L
ATOM	1819 CA CYS 194 1820 C CYS 194	18.957 -3.276 29.254 1.00 8.18 19.026 -3.294 30.817 1.00 8.18	ĻL
ATOM	1821 O CYS 194	19.005 -2.273 31.468 1.00 8.73	L
ATOM	1822 CB CYS 194	19.892 -2.191 28.667 1.00 8.73	Ĺ
ATOM	1823 SG CYS 194	21.560 -2.720 28.915 1.00 8.73	Ĺ
ATOM	1824 N GLU 195	19.102 -4.470 31.421 1.00 12.11	L
MOTA	1825 H GLU 195	19.104 -5.299 30.891 1.00 0.00	L
ATOM ATOM	1826 CA GLU 195	19.175 -4.535 32.868 1.00 12.11	L
ATOM	1827 CB GLU 195 1828 CG GLU 195	18.395 -5.690 33.407 1.00 18.12 18.236 -5.549 34.864 1.00 18.12	Ļ
ATOM	1829 CD GLU 195	18.236 -5.549 34.864 1.00 18.12 17.445 -6.665 35.485 1.00 18.12	L L
ATOM	1830 OE1 GLU 195	17.949 -7.808 35.461 1.00 18.12	
MOTA	1831 OE2 GLU 195	16.332 -6.390 35.999 1.00 18.12	Ŀ
ATOM	1832 C GLU 195	20.597 -4.710 33.281 1.00 12.11	L
ATOM	1833 O GLU 195	21.307 -5.569 32.729 1.00 18.12	L
ATOM	1834 N VAL 196	21.044 -3.892 34.244 1.00 2.97	L
ATOM ATOM	1835 H VAL 196 1836 CA VAL 196	20.447 -3.229 34.646 1.00 0.00	L
ATOM	1836 CA VAL 196 1837 CB VAL 196	22.420 -4.001 34.696 1.00 2.97 23.329 -2.968 34.046 1.00 8.95	Ļ
ATOM	1838 CG1 VAL 196	22.519 -1.985 33.261 1.00 8.95	L
MOTA	1839 CG2 VAL 196	24.218 -2.332 35.126 1.00 8.95	L
MOTA	1840 C VAL 196	22.697 -4.030 36.173 1.00 2.97	L
MOTA	1841 O VAL 196	22.112 -3.313 36.931 1.00 8.95	L
ATOM ATOM	1842 N THR 197 1843 H THR 197	23.622 -4.909 36.536 1.00 4.04	L
ATOM	1843 H THR 197 1844 CA THR 197		Ļ
	1845 CB THR 197	24.036 -5.144 37.899 1.00 4.04 23.914 -6.662 38.304 1.00 7.18	L
	11111 137		L

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ATOM 1846 OG1 THR 197
                            22.551 -7.040 38.382 1.00 7.18
ATOM 1847 HG1 THR 197
                            22.309 -7.517 37.576 1.00 0.00
ATOM 1848 CG2 THR 197
                            24.525 -6.908 39.672 1.00 7.18
ATOM 1849 C THR 197
                           25.497 -4.753 38.013 1.00 4.04
ATOM 1850 O THR 197
                           26.292 -5.040 37.114 1.00 7.18
ATOM 1851 N HIS 198
ATOM 1852 H HIS 198
                          25.824 -4.104 39.127 1.00 2.00
                          25.100 -3.923 39.770 1.00 0.00
ATOM 1853 CA HIS 198
                           27.154 -3.616 39.475 1.00 2.00
ATOM 1854 CB HIS 198
                           27.567 -2.437 38.598 1.00 2.00
ATOM 1855 CG HIS 198
                           28.962 -1.974 38.829 1.00 2.00
                            30.102 -2.196 38.138 1.00 2.00
ATOM 1856 CD2 HIS 198
ATOM 1857 ND1 HIS 198
                            29.299 -1.114 39.845 1.00 2.00
ATOM 1858 HD1 HIS 198
                            28.705 -0.753 40.530 1.00 0.00
ATOM 1859 CE1 HIS 198
                            30.584 -0.817 39.772 1.00 2.00
ATOM 1860 NE2 HIS 198
                            31.097 -1.460 38.742 1.00 2.00
ATOM 1861 HE2 HIS 198
                           32.030 -1.438 38.460 1.00 0.00
ATOM 1862 C HIS 198
                          27.027 -3.163 40.916 1.00 2.00
ATOM 1863 O HIS 198
                           25.985 -2.649 41.318 1.00 2.00
ATOM 1864 N GLN 199
                           28.101 -3.347 41.680 1.00 27.54 L
ATOM 1865 H GLN 199
                           28.925 -3.717 41.295 1.00 0.00
ATOM 1866 CA GLN 199
                            28.089 -3.012 43.107 1.00 27.54
ATOM 1867 CB GLN 199
                            29.330 -3.507 43.840 1.00 15.80
ATOM 1868 CG GLN 199
ATOM 1869 CD GLN 199
                            30.606 -2.814 43.553 1.00 15.80
                            31.793 -3.689 43.976 1.00 15.80
ATOM 1870 OE1 GLN 199
                            32.334 -3.513 45.065 1.00 15.80
ATOM 1871 NE2 GLN 199
                            32.189 -4.641 43.117 1.00 15.80
ATOM 1872 HE21 GLN 199
                            32.959 -5.199 43.358 1.00 0.00
ATOM 1873 HE22 GLN 199
                           31.695 -4.740 42.274 1.00 0.00
ATOM 1874 C GLN 199
                           27.908 -1.615 43.482 1.00 27.54
ATOM 1875 O GLN 199
                           27.773 -1.324 44.639 1.00 15.80
ATOM 1876 N GLY 200
                           27.912 -0.754 42.498 1.00 6.15
ATOM 1877 H GLY 200
                           28.046 -1.064 41.576 1.00 0.00
ATOM 1878 CA GLY 200
                          27.721 0.643 42.790 1.00 6.15
ATOM 1879 C GLY 200
                           26.237 0.933 42.827 1.00 6.15
ATOM 1880 O GLY 200
                           25.790 2.045 43.163 1.00 16.30
ATOM 1881 N LEU 201
                           25.503 -0.097 42.444 1.00 14.37
ATOM 1882 H LEU 201
                           25.970 -0.913 42.181 1.00 0.00
ATOM 1883 CA LEU 201
                           24.058 -0.081 42.412 1.00 14.37
ATOM 1884 CB LEU 201
                           23.608 -0.662 41.067 1.00 7.23
ATOM 1885 CG LEU 201
                            23.380 0.262 39.845 1.00 7.23
ATOM 1886 CD1 LEU 201
ATOM 1887 CD2 LEU 201
                            24.068 1.628 39.972 1.00 7.23
                            23.875 -0.545 38.651 1.00 7.23
ATOM 1888 C LEU 201
ATOM 1889 O LEU 201
ATOM 1890 N SER 202
                           23.438 -0.875 43.610 1.00 14.37
                           24.000 -1.847 44.071 1.00 7.23
                           22.291 -0.441 44.115 1.00 2.00
ATOM 1891 H SER 202
                           21.859 0.343 43.717 1.00 0.00
ATOM 1892 CA SER 202
ATOM 1893 CB SER 202
                           21.659 -1.096 45.253 1.00 2.00
                           20.581 -0.236 45.862 1.00 5.65
ATOM 1894 OG SER 202
                            21.100 0.572 46.849 1.00 5.65
ATOM 1895 HG SER 202
                           21.630 0.017 47.436 1.00 0.00
ATOM 1896 C SER 202
                           20.982 -2.240 44.622 1.00 2.00
ATOM 1897 O SER 202
                           20.996 -3.384 45.104 1.00 5.65
ATOM 1898 N SER 203
                           20.346 -1.923 43.523 1.00 24.17
ATOM 1899 H SER 203
                           20.355 -1.004 43.189 1.00 0.00 L
ATOM 1900 CA SER 203
                          19.655 -2.944 42.820 1.00 24.17 L
ATOM 1901 CB SER 203
                          18.206 -2.994 43.302 1.00 14.26 L
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ATOM 1902 OG SER 203
                            17.385 -2.084 42.586 1.00 14.26
 ATOM 1903 HG SER 203
                            17.915 -1.369 42.239 1.00 0.00
 ATOM 1904 C SER 203
                            19.758 -2.544 41.366 1.00 24.17
 ATOM 1905 O SER 203
                            20.018 -1.385 41.077 1.00 14.26
 ATOM 1906 N PRO 204
                            19.588 -3.517 40.462 1.00 12.26
                           19.378 -4.906 40.907 1.00 16.08
 ATOM 1907 CD PRO 204
 ATOM 1908 CA PRO 204
ATOM 1909 CB PRO 204
ATOM 1910 CG PRO 204
                            19.614 -3.459 39.013 1.00 12.26
                            18.825 -4.695 38.618 1.00 16.08
19.213 -5.659 39.604 1.00 16.08
 ATOM 1911 C PRO 204
                            19.025 -2.212 38.403 1.00 12.26
 ATOM 1912 O PRO 204
ATOM 1913 N VAL 205
                           17.979 -1.712 38.819 1.00 16.08
                          19.699 -1.702 37.401 1.00 13.44
 ATOM 1914 H VAL 205 20.541 -2.098 37.112 1.00 0.00 L
 ATOM 1915 CA VAL 205 19.191 -0.535 36.715 1.00 13.44 L
 ATOM 1916 CB VAL 205
                          20.243 0.558 36.718 1.00 14.22 L
 ATOM 1917 CG1 VAL 205
                           19.752 1.803 36.040 1.00 14.22
 ATOM 1918 CG2 VAL 205 20.615 0.807 38.122 1.00 14.22
ATOM 1919 C VAL 205 18.862 -0.916 35.289 1.00 13.44
ATOM 1920 O VAL 205 19.738 -1.397 34.573 1.00 14.22
 ATOM 1921 N THR 206 17.624 -0.726 34.863 1.00 8.60
ATOM 1922 H THR 206
                          16.936 -0.361 35.454 1.00 0.00
ATOM 1923 CA THR 206
                           17.313 -1.068 33.479 1.00 8.60
ATOM 1924 CB THR 206
                            16.050 -2.003 33.337 1.00 13.98
ATOM 1925 OG1 THR 206
                            14.892 -1.330 33.797 1.00 13.98
ATOM 1926 HG1 THR 206
                            14.615 -1.696 34.639 1.00 0.00
ATOM 1927 CG2 THR 206
                           16.180 -3.215 34.137 1.00 13.98
ATOM 1928 C THR 206
                           17.083 0.167 32.595 1.00 8.60 L
                           16.550 1.162 33.052 1.00 13.98 L
ATOM 1929 O THR 206
ATOM 1930 N LYS 207
ATOM 1931 H LYS 207
                           17.540 0.149 31.355 1.00 25.20 L
                           18.103 -0.581 31.022 1.00 0.00
ATOM 1932 CA LYS 207
ATOM 1933 CB LYS 207
                           17.202 1.261 30.485 1.00 25.20
                            18.436 1.972 29.946 1.00 22.73
ATOM 1934 CG LYS 207
ATOM 1935 CD LYS 207
                            18.343 3.471 30.038 1.00 22.73
                            18.934 3.998 31.325 1.00 22.73
ATOM 1936 CE LYS 207
                            18.546 5.447 31.499 1.00 22.73
ATOM 1937 NZ LYS 207
                            18.239 6.139 30.203 1.00 22.73
ATOM 1938 HZ1 LYS 207
                           17.367 5.750 29.775 1.00 0.00
                                                            L
ATOM 1939 HZ2 LYS 207
                           19.021 5.982 29.533 1.00 0.00
                           18.115 7.153 30.355 1.00 0.00
ATOM 1940 HZ3 LYS 207
ATOM 1941 C LYS 207
                           16.454 0.569 29.349 1.00 25.20
ATOM 1942 O LYS 207
                           16.823 -0.558 28.955 1.00 22.73
ATOM 1943 N SER 208
                           15.391 1.210 28.851 1.00 2.00
ATOM 1944 H SER 208
                           15.137 2.085 29.220 1.00 0.00
ATOM 1945 CA SER 208
                           14.618 0.632 27.767 1.00 2.00
ATOM 1946 CB SER 208
                           13.541 -0.274 28.325 1.00 32.66
ATOM 1947 OG SER 208
                           13.110 0.186 29.579 1.00 32.66
ATOM 1948 HG SER 208
                            12.202 -0.088 29.713 1.00 0.00
ATOM 1949 C SER 208
                           13.986 1.632 26.813 1.00 2.00 L
ATOM 1950 O SER 208
                           13.906 2.837 27.083 1.00 32.66
                           13.560 1.109 25.664 1.00 24.62
ATOM 1951 N PHE 209
                                                          L
                           13.667 0.144 25.517 1.00 0.00
ATOM 1952 H PHE 209
ATOM 1953 CA PHE 209
                           12.932 1.901 24.619 1.00 24.62 L
                          13.932 2.322 23.569 1.00 26.21 L
14.355 1.225 22.650 1.00 26.21 L
15.669 0.784 22.642 1.00 26.21 L
13.461 0.644 21.778 1.00 26.21 L
ATOM 1954 CB PHE 209
ATOM 1955 CG PHE 209
ATOM 1956 CD1 PHE 209
ATOM 1957 CD2 PHE 209
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ATOM	1058	CE1 PHE	209	16.0	77 -0 20	1 21 80	0 1.00 26.21	L
ATOM		CE2 PHE					1 1.00 26.21	
ATOM		CZ PHE	209				1.00 26.21	L
ATOM	1961		209	11.81			1.00 24.62	L
ATOM	1962		209	11.92			1.00 24.02	Ĺ
ATOM	1963		210	10.719			1.00 20.21	Ĺ
ATOM	1964		210	10.678			1.00 0.00	Ĺ
ATOM		CA ASN	210	9.58			1.00 0.00	Ĺ
ATOM		CB ASN		8.31			1.00 10.63	Ĺ
ATOM		CG ASN					1.00 10.63	Ī
ATOM		OD1 ASN					1.00 10.63	
ATOM		ND2 ASN		8.24			1.00 10.63	Ĺ
ATOM		HD21 ASN					1 1.00 0.00	Ĺ
ATOM		HD22 ASN					0.00 0.00	Ĺ
ATOM	1972	C ASN	210	9.781			1.00 14.43	L
MOTA	1973	O ASN	210	9.812			1.00 10.63	L
ATOM	1974	N ARG	211	9.946			1.00 15.32	L
MOTA	1975	H ARG	211	9.937			1.00 0.00	L
MOTA		CA ARG	211	10.13	5 0.130	19.532	1.00 15.32	L
ATOM	1977	CB ARG	211		7 -1.309			L
ATOM		CG ARG			18 -1.58			
ATOM		CD ARG	211				' 1.00 21.88	
ATOM		NE ARG	211				1.00 21.88	L
ATOM		HE ARG	211				1.00 0.00	L
ATOM		CZ ARG					1.00 21.88	L
ATOM		NH1 ARG					1.00 21.88	
ATOM		HH11 ARC					1 1.00 0.00	
ATOM		HH12 ARG					4 1.00 0.00	L
MOTA		NH2 ARG					1.00 21.88	L
MOTA		HH21 ARG					7 1.00 0.00	L
ATOM ATOM		HH22 ARG	211 211		59 -4.17			L
ATOM	1990		211	8.027			1.00 15.32 1.00 21.88	L L
ATOM		OT ARG	211				1.00 21.88	L
ATOM		CB GLN	1				1.00 21.88	H
ATOM		CG GLN	1				1.00 51.02	H
ATOM		CD GLN	i				1.00 51.82	H
ATOM		OE1 GLN	1				1.00 51.82	H
MOTA		NE2 GLN	1				1.00 51.82	H
ATOM		HE21 GLN					1.00 0.00	Н
MOTA	1998	HE22 GLN	1				1.00 0.00	Н
ATOM	1999	C GLN	1				1.00 43.11	Н
ATOM	2000		1	61.150	14.290	15.679	1.00 51.82	Н
ATOM		HT1 GLN	1				1.00 0.00	Н
ATOM		HT2 GLN	1				1.00 0.00	Н
ATOM		N GLN					1.00 43.11	Н
ATOM		HT3 GLN	1				1.00 0.00	Н
MOTA		CA GLN	_1				1.00 43.11	Н
ATOM		N VAL					.00 25.49	H
MOTA		H VAL	2 (.00 0.00	Н
ATOM ATOM		CA VAL	2 2				1.00 25.49	Н
ATOM		CG1 VAL	2				1.00 31.23	Н
ATOM		CG2 VAL	2	62.962		17.043	1.00 31.23	Н
ATOM		C VAL		304.400 • 770 G	11.033 11 126 1	17.49U 6.450 4	1.00 31.23 .00 25.49	H H
ATOM	2013			30.772 30.004 -	11.130 10.733	17 3/5 4	.00 25.49	Н
– •••		164	- '	-0.004	10.103	11.040	.00 31.23	1.1

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ATOM 2014 N GLN
                          60.556 10.887 15.171 1.00 34.39
                      3
 ATOM 2015 H GLN
                      3
                          61.192 11.188 14.489 1.00 0.00
 ATOM 2016 CA GLN
                           59.375 10.151 14.799 1.00 34.39
                      3
                                                          Н
 ATOM 2017 CB GLN
                      3
                           58.383 11.060 14.122 1.00 23.21
 ATOM 2018 CG GLN
                           56.995 10.569 14.248 1.00 23.21
 ATOM 2019 CD GLN
                           56.047 11.694 14.558 1.00 23.21
                       3
                                                          Н
 ATOM 2020 OE1 GLN
                      3
                           55.865 12.062 15.722 1.00 23.21
 ATOM 2021 NE2 GLN
                           55.438 12.270 13.518 1.00 23.21
                       3
 ATOM 2022 HE21 GLN
                           55.634 13.211 13.330 1.00 0.00
 ATOM 2023 HE22 GLN
                           54.818 11.732 12.985 1.00 0.00
                                                          Н
 ATOM 2024 C GLN
                     3
                          59.616 8.949 13.919 1.00 34.39
                                                        H
 ATOM 2025 O GLN
                      3
                          60.394 9.005 12.964 1.00 23,21
                                                        Н
                         58.939 7.858 14.259 1.00 26.14
58.365 7.865 15.055 1.00 0.00
 ATOM 2026 N LEU
                                                        Н
 ATOM 2027 H LEU
                     4 58.365 7.865 15.055 1.00 0.00
4 59.023 6.639 13.483 1.00 26.14
 ATOM 2028 CA LEU
                                                        Н
 ATOM 2029 CB LEU
                     4
                         59.625 5.512 14.324 1.00 24.39
 ATOM 2030 CG LEU
                     4
                          61.145 5.569 14.521 1.00 24.39
 ATOM 2031 CD1 LEU
                     4 61.591 4.266 15.113 1.00 24.39
                                                         Н
 ATOM 2032 CD2 LEU
                      4 61.844 5.835 13.204 1.00 24.39
                                                         Н
 ATOM 2033 C LEU 4 57.610 6.299 13.058 1.00 26.14
                                                        Н
 ATOM 2034 O LEU
                         56.768 5.992 13.893 1.00 24.39
                     4
                                                        Н
ATOM 2035 N VAL
                         57.359 6.345 11.757 1.00 6.54
ATOM 2036 H VAL
                     5
                         58.065 6.549 11.123 1.00 0.00
ATOM 2037 CA VAL
                    5
                          56.020 6.071 11.258 1.00 6.54
                                                        Н
ATOM 2038 CB VAL
                     5
                          55.414 7.344 10.647 1.00 25.47
ATOM 2039 CG1 VAL 5
                        54.246 7.016 9.704 1.00 25.47
ATOM 2040 CG2 VAL
                      5 54.967 8.246 11.772 1.00 25.47
ATOM 2041 C VAL
                     5
                         55.852 4.930 10.258 1.00 6.54
ATOM 2042 O VAL
                         56.075 5.112 9.078 1.00 25.47
                     5
ATOM 2043 N GLN
                     6
                       55.379 3.781 10.733 1.00 21.58
                                                        Н
ATOM 2044 H GLN
                        55.166 3.731 11.697 1.00 0.00
                     6
ATOM 2045 CA GLN 6
                        55.175 2.610 9.890 1.00 21.58
ATOM 2046 CB GLN
                        55.221 1.333 10.725 1.00 12.62
                    6
                                                        Н
ATOM 2047 CG GLN
                    6
                         56.339 1.273 11.689 1.00 12.62
                                                        Н
ATOM 2048 CD GLN
                          56.174 0.103 12.564 1.00 12.62
                      6
ATOM 2049 OE1 GLN
                     6
                          56.318 0.187 13.807 1.00 12.62
ATOM 2050 NE2 GLN
                          55.858 -1.022 11.946 1.00 12.62
                      6
ATOM 2051 HE21 GLN
                      6
                           56.566 -1.513 11.473 1.00 0.00
ATOM 2052 HE22 GLN
                      6 54.924 -1.317 11.984 1.00 0.00
ATOM 2053 C GLN 6
                         53.917 2.523 9.026 1.00 21.58
                                                       Η
ATOM 2054 O GLN
                         52.878 3.172 9.253 1.00 12.62
                     6
                                                       Н
ATOM 2055 N SER
                     7
                         54.051 1.665 8.020 1.00 15.58
                                                       Н
ATOM 2056 H SER
                         54.920 1.206 7.926 1.00 0.00
                                                       Н
ATOM 2057 CA SER
                     7
                        53.010 1.379 7.068 1.00 15.58
ATOM 2058 CB SER
                     7
                         53.569 0.423 6.025 1.00 28.33
                                                        Н
ATOM 2059 OG SER
                        54.156 -0.722 6.628 1.00 28.33
                     7
                                                        Н
ATOM 2060 HG SER
                     7
                        54.210 -0.605 7.576 1.00 0.00
                                                       Н
ATOM 2061 C SER
                         51.757 0.771 7.716 1.00 15.58
                     7
                                                       Н
ATOM 2062 O SER
                         51.803 0.269 8.847 1.00 28.33
                     7
                                                       Н
ATOM 2063 N GLY
                     8
                         50.658 0.800 6.965 1.00 16.97
                                                       Н
ATOM 2064 H GLY
                         50.705 1.215 6.078 1.00 0.00
                                                       Н
ATOM 2065 CA GLY
                        49.386 0.262 7.409 1.00 16.97
                     8
                                                       Н
ATOM 2066 C GLY
                         49.289 -1.255 7.464 1.00 16.97
ATOM 2067 O GLY
                         50.032 -1.958 6.779 1.00 28.86
                                                       Н
ATOM 2068 N ALA
                        48.341 -1.736 8.277 1.00 14.69
                                                       Н
ATOM 2069 H ALA
                        47.784 -1.085 8.754 1.00 0.00
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ATOM	2070 CA ALA	9	48.077 -3.154 8.513 1.00 14.69	Н
ATOM	2071 CB ALA	9	47.088 -3.308 9.651 1.00 32.05	Н
ATOM	2072 C ALA	9	47.553 -3.828 7.277 1.00 14.69	H
				H
MOTA	2073 O ALA	9		
ATOM	2074 N GLU	10	48.181 -4.944 6.904 1.00 24.24	Н
ATOM	2075 H GLU	10	48.920 -5.271 7.458 1.00 0.00	Н
ATOM	2076 CA GLU	10	47.818 -5.696 5.698 1.00 24.24	Н
ATOM	2077 CB GLU	10	49.049 -5.754 4.765 1.00 45.24	Н
ATOM	2078 CG GLU		49,108 -4.706 3.659 1.00 45.24	Н
ATOM	2079 CD GLU		50.362 -3.800 3.714 1.00 45.24	Н
ATOM	2080 OE1 GLL		51.501 -4.248 3.376 1.00 45.24	Н
ATOM	2081 OE2 GLU		50.198 -2.615 4.092 1.00 45.24	H
		10	47.377 -7.122 6.004 1.00 24.24	H
ATOM	2082 C GLU			
ATOM	2083 O GLU	10	47.823 -7.706 6.983 1.00 45.24	Н
ATOM	2084 N VAL	11	46.491 -7.674 5.179 1.00 15.05	Н
MOTA	2085 H VAL	11	46.114 -7.116 4.461 1.00 0.00	H
ATOM	2086 CA VAL	11	46.067 -9.069 5.330 1.00 15.05	Н
ATOM	2087 CB VAL	11	44.675 -9.341 4.858 1.00 28.33	Н
MOTA	2088 CG1 VAL	. 11	43.987 -10.170 5.840 1.00 28.33	Н
ATOM	2089 CG2 VAL		43.969 -8.074 4.586 1.00 28.33	Н
ATOM	2090 C VAL	11	46.917 -9.796 4.319 1.00 15.05	н
ATOM	2091 O VAL	11	47.079 -9.294 3.206 1.00 28.33	н
ATOM	2092 N VAL	12	47.433 -10.975 4.658 1.00 7.83	H
	2092 H VAL	12	47.252 -11.339 5.540 1.00 0.00	H
ATOM				
MOTA	2094 CA VAL	12	48.274 -11.723 3.734 1.00 7.83	H
ATOM	2095 CB VAL	12	49.769 -11.694 4.115 1.00 12.98	Н
ATOM	2096 CG1 VAL		50.616 -12.136 2.901 1.00 12.98	Н
ATOM	2097 CG2 VAL	. 12	50.168 -10.317 4.560 1.00 12.98	Н
ATOM	2098 C VAL	12	47.855 -13.134 3.779 1.00 7.83	Н
ATOM	2099 O VAL	12	47.546 -13.621 4.848 1.00 12.98	Н
ATOM	2100 N LYS	13	47.878 -13.799 2.626 1.00 12.90	Н
ATOM	2101 H LYS	13	48.181 -13.347 1.812 1.00 0.00	Н
ATOM	2102 CA LYS	13	47.474 -15.204 2.568 1.00 12.90	Н
ATOM	2103 CB LYS	13	47.066 -15.632 1.152 1.00 26.04	H
ATOM	2104 CG LYS	13	46.950 -14.519 0.151 1.00 26.04	H
ATOM	2105 CD LYS	13	45.577 -14.459 -0.533 1.00 26.04	H
ATOM	2106 CE LYS			
		13	45.352 -13.068 -1.257 1.00 26.04	Н
ATOM	2107 NZ LYS	13	45.878 -12.999 -2.691 1.00 26.04	Н
ATOM	2108 HZ1 LYS	13	46.530 -13.783 -2.863 1.00 0.00	Н
ATOM	2109 HZ2 LYS	13	46.375 -12.094 -2.860 1.00 0.00	Н
ATOM	2110 HZ3 LYS		45.078 -13.072 -3.355 1.00 0.00	Н
ATOM	2111 C LYS	13	48.576 -16.111 3.052 1.00 12.90	Н
ATOM	2112 O LYS	13	49.764 -15.851 2.876 1.00 26.04	Н
ATOM	2113 N PRO	14	48.186 -17.204 3.690 1.00 19.03	Н
ATOM	2114 CD PRO	14	46.812 -17.633 3.953 1.00 8.63	Н
ATOM	2115 CA PRO		49.191 -18.137 4.186 1.00 19.03	Н
ATOM	2116 CB PRO		48.389 -19.311 4.696 1.00 8.63	H
ATOM	2117 CG PRO		47.021 -18.888 4.744 1.00 8.63	H
ATOM	2118 C PRO	14		
ATOM	2119 O PRO	14		Н
			49.372 -18.940 1.949 1.00 8.63	Н
MOTA	2120 N GLY	15	51.263 -18.291 2.993 1.00 15.60	H
ATOM	2121 H GLY	15	51.679 -17.935 3.814 1.00 0.00	Η
MOTA	2122 CA GLY	15	52.100 -18.583 1.852 1.00 15.60	Н
ATOM	2123 C GLY	15	52.634 -17.282 1.294 1.00 15.60	Н
ATOM	2124 O GLY	15	53.831 -17.114 1.120 1.00 24.24	Н
ATOM	2125 N ALA	16	51.735 -16.346 1.025 1.00 31.60	Н

ATOM 2128 CB ALA 16 ATOM 2129 C ALA 16 ATOM 2129 C ALA 16 ATOM 2130 O ALA 16 ATOM 2131 N SER 17 ATOM 2131 N SER 17 ATOM 2132 H SER 17 ATOM 2133 CA SER 17 ATOM 2134 CB SER 17 ATOM 2135 OG SER 17 ATOM 2136 HG SER 17 ATOM 2136 HG SER 17 ATOM 2137 C SER 17 ATOM 2138 O SER 17 ATOM 2138 O SER 17 ATOM 2139 N VAL 18 ATOM 2140 H VAL 18 ATOM 2140 CB VAL 18 ATOM 2141 CA VAL 18 ATOM 2142 CB VAL 18 ATOM 2143 CG1 VAL 18 ATOM 2144 CG2 VAL 18 ATOM 2146 O VAL 18 ATOM 2147 N LYS 19 ATOM 2148 H LYS 19 ATOM 2149 CA LYS 19 ATOM 2150 CB LYS 19 ATOM 2151 CG LYS 19 ATOM 2151 CG LYS 19 ATOM 2155 CD LYS 19 ATOM 2156 CB LYS 19 ATOM 2157 CA SER 21 ATOM 2158 C LYS 19 ATOM 2158 C LYS 19 ATOM 2158 C LYS 19 ATOM 2158 C LYS 19 ATOM 2158 C LYS 19 ATOM 2159 O LYS 19 ATOM 2160 C LEU 20 ATOM 2161 C LEU 20 ATOM 2161 C LEU 20 ATOM 2162 CA LEU 20 ATOM 2163 CB LEU 20 ATOM 2164 CG LEU 20 ATOM 2166 CD2 LEU 20 ATOM 2167 C LEU 20 ATOM 2167 C LEU 20 ATOM 2168 O LEU 20 ATOM 2170 CB SER 21 ATOM 2170 CB SER 21 ATOM 2171 CA SER 21 ATOM 2172 CB SER 21 ATOM 2173 CG SER 21 ATOM 2173 CG SER 21 ATOM 2173 CG SER 21 ATOM 2174 CA SER 21 ATOM 2175 CB SER 21 ATOM 2176 CB SER 21 ATOM 2177									
ATOM 2128 CA ALA 16 ATOM 2128 CB ALA 16 ATOM 2129 C ALA 16 ATOM 2130 O ALA 16 ATOM 2131 N SER 17 ATOM 2131 N SER 17 ATOM 2132 H SER 17 ATOM 2133 CA SER 17 ATOM 2134 CB SER 17 ATOM 2135 OG SER 17 ATOM 2136 HG SER 17 ATOM 2137 C SER 17 ATOM 2138 O SER 17 ATOM 2138 O SER 17 ATOM 2138 O SER 17 ATOM 2140 H VAL 18 ATOM 2140 CA VAL 18 ATOM 2141 CA VAL 18 ATOM 2144 CG2 VAL 18 ATOM 2145 C VAL 18 ATOM 2146 O VAL 18 ATOM 2146 O VAL 18 ATOM 2147 N LYS 19 ATOM 2151 CG LYS 19 ATOM 2155 HZ1 LYS 19 ATOM 2156 C LYS 19 ATOM 2157 HZ3 LYS 19 ATOM 2157 HZ3 LYS 19 ATOM 2158 C LYS 19 ATOM 2157 HZ3 LYS 19 ATOM 2158 C LYS 19 ATOM 2158 C LYS 19 ATOM 2159 CA LEU 20 ATOM 2163 CB LEU 20 ATOM 2163 CB LEU 20 ATOM 2163 CB LEU 20 ATOM 2164 CG LEU 20 ATOM 2165 CD1 LEU 20 ATOM 2167 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2177 N CYS 22 ATOM 2178 H CYS 22 ATOM 2178 H CYS 22 ATOM 2178 C CYS 23 ATOM 2179 CA CYS 23 ATOM 2180 C CYS 23 ATOM 2180 C CYS 23 ATOM 2179 CA CYS 23 ATOM 2179 CA CYS 23 ATOM 2179 CA CYS 23 ATOM 2180 C CYS 23 ATOM 2180 C CYS 23 ATOM 2179 CA CYS 23 ATOM 2179 CA CYS 23 ATOM 2180 C CYS 23 ATOM 2180 C CYS 23 ATOM 2180 C CYS 23 ATOM 2179 CA CYS 23 ATOM 2179 CA CYS 23 ATOM 2180 C CYS 23 ATOM 2180 C CYS 23 ATOM 2180 C CYS 23 ATOM 2179 CA CYS 25 ATOM 2179 CA CYS 25 ATOM 2179 CA CYS 25 ATOM 2180 C CYS 23 ATOM 2179 CA CYS 25 ATOM 2179 CA CYS 25 ATOM 2179 CA CYS 25 ATOM 2180 C	ATOR	A 212	e LI A		e E0.70	0 40 50		0 4 00	
ATOM 2129 C ALA 16 ATOM 2130 C ALA 16 ATOM 2130 C ALA 16 ATOM 2131 N SER 17 ATOM 2131 N SER 17 ATOM 2132 H SER 17 ATOM 2133 CA SER 17 ATOM 2134 CB SER 17 ATOM 2136 HG SER 17 ATOM 2136 HG SER 17 ATOM 2136 HG SER 17 ATOM 2137 C SER 17 ATOM 2139 N VAL 18 ATOM 2140 H VAL 18 ATOM 2141 CA VAL 18 ATOM 2142 CB VAL 18 ATOM 2142 CB VAL 18 ATOM 2144 CG2 VAL 18 ATOM 2145 C VAL 18 ATOM 2146 C VAL 18 ATOM 2146 C VAL 18 ATOM 2147 N LYS 19 ATOM 2150 CB LYS 19 ATOM 2151 CG LYS 19 ATOM 2155 HZ1 LYS 19 ATOM 2156 HZ2 LYS 19 ATOM 2157 HZ3 LYS 19 ATOM 2158 C LYS 19 ATOM 2156 HZ2 LYS 19 ATOM 2157 HZ3 LYS 19 ATOM 2166 CD2 LEU 20 ATOM 2167 C LEU 20 ATOM 2167 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2168 O LEU 20 ATOM 2167 C LEU 20 ATOM 2167 C SER 21 ATOM 2178 C CYS 22 ATOM 2178 H CYS 22 ATOM 2178 C CYS 22 ATOM 2179 CA CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 21									
ATOM 2129 C ALA 16 ATOM 2130 O ALA 16 ATOM 2131 N SER 17 ATOM 2131 N SER 17 ATOM 2132 H SER 17 ATOM 2132 CA SER 17 ATOM 2133 CA SER 17 ATOM 2134 CB SER 17 ATOM 2135 OG SER 17 ATOM 2136 HG SER 17 ATOM 2137 C SER 17 ATOM 2138 O SER 17 ATOM 2139 N VAL 18 ATOM 2139 N VAL 18 ATOM 2140 H VAL 18 ATOM 2141 CA VAL 18 ATOM 2141 CA VAL 18 ATOM 2142 CB VAL 18 ATOM 2144 CG2 VAL 18 ATOM 2144 CG2 VAL 18 ATOM 2144 CG2 VAL 18 ATOM 2145 C VAL 18 ATOM 2146 O VAL 18 ATOM 2147 N LYS 19 ATOM 2152 CD LYS 19 ATOM 2155 HZ1 LYS 19 ATOM 2154 NZ LYS 19 ATOM 2156 HZ2 LYS 19 ATOM 2157 HZ3 LYS 19 ATOM 2158 C LYS 19 ATOM 2160 N LEU 20 ATOM 2161 C LEU 20 ATOM 2163 CB LEU 20 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2178 H CYS 22 ATOM 2178 C C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2177 C SER 21 ATOM 2178 C SER 21 ATOM 2177 C SER 21 ATOM 2178 C CYS 22 ATOM 2178 C CYS 22 ATOM 2178 C CYS 22 ATOM 2178 C CYS 22 ATOM 2178 C CYS 22 ATOM 2178 C CYS 22 ATOM 2178 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 2180 C CYS 22 ATOM 21	AION	л 212	7 CA /	ALA 1	16 52.1	10 -15.05	7 0.46	66 1.00 31.6	0 F
ATOM 2139 C ALA 16 ATOM 2130 O ALA 16 ATOM 2131 N SER 17 ATOM 2132 H SER 17 ATOM 2132 H SER 17 ATOM 2132 CA SER 17 ATOM 2133 CA SER 17 ATOM 2134 CB SER 17 ATOM 2135 OG SER 17 ATOM 2136 HG SER 17 ATOM 2137 C SER 17 ATOM 2138 O SER 17 ATOM 2138 O SER 17 ATOM 2139 N VAL 18 ATOM 2140 H VAL 18 ATOM 2141 CA VAL 18 ATOM 2141 CA VAL 18 ATOM 2142 CB VAL 18 ATOM 2143 CG1 VAL 18 ATOM 2144 CG2 VAL 18 ATOM 2145 C VAL 18 ATOM 2146 O VAL 18 ATOM 2147 N LYS 19 ATOM 2151 CG LYS 19 ATOM 2151 CG LYS 19 ATOM 2152 CD LYS 19 ATOM 2153 CE LYS 19 ATOM 2154 NZ LYS 19 ATOM 2155 HZ LYS 19 ATOM 2156 CB LYS 19 ATOM 2157 HZ LYS 19 ATOM 2158 C LYS 19 ATOM 2158 C LYS 19 ATOM 2160 CB LEU 20 ATOM 2161 C LEU 20 ATOM 2161 C LEU 20 ATOM 2162 CA LEU 20 ATOM 2163 CB LEU 20 ATOM 2164 CG LEU 20 ATOM 2165 CB LEU 20 ATOM 2166 CD LEU 20 ATOM 2167 C LEU 20 ATOM 2167 C LEU 20 ATOM 2168 C RE 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2175 C SER 21 ATOM 2176 C SER 21 ATOM 2177 CA CYS 22 ATOM 2178 H CYS 22 ATOM 2178 H CYS 22 ATOM 2178 C CYS 22 ATOM 2180 C CYS 22 ATOM 2	ATON	A 212	8 CB /	ALA 1	6 50.8	75 -14 15	1 0.38		
ATOM 2130 O ALA 16 ATOM 2131 N SER 17 ATOM 2132 H SER 17 ATOM 2133 CA SER 17 ATOM 2134 CB SER 17 ATOM 2135 OG SER 17 ATOM 2136 HG SER 17 ATOM 2137 C SER 17 ATOM 2137 C SER 17 ATOM 2139 N VAL 18 ATOM 2140 H VAL 18 ATOM 2141 CA VAL 18 ATOM 2142 CB VAL 18 ATOM 2144 CG2 VAL 18 ATOM 2144 CG2 VAL 18 ATOM 2146 O VAL 18 ATOM 2147 N LYS 19 ATOM 2149 CA LYS 19 ATOM 2150 CB LYS 19 ATOM 2150 CB LYS 19 ATOM 2151 CG LYS 19 ATOM 2153 C LYS 19 ATOM 2154 C LYS 19 ATOM 2155 HZ1 LYS 19 ATOM 2156 CB LYS 19 ATOM 2157 HZ3 LYS 19 ATOM 2158 C LYS 19 ATOM 2162 CA LEU 20 ATOM 2163 CB LEU 20 ATOM 2164 CG LEU 20 ATOM 2165 CD LYS 19 ATOM 2165 CD LYS 19 ATOM 2166 CD2 LEU 20 ATOM 2167 C LEU 20 ATOM 2177 C SER 21 ATOM 2178 H CSC 22 ATOM 2178 H CYS 22 ATOM 2178 H CYS 22 ATOM 2178 H CYS 22 ATOM 2178 H CYS 22 ATOM 2178 H CYS 22 ATOM 2177 CA CYS 22 ATOM 2177 CA CYS 22 ATOM 2177 CA CYS 22 ATOM 2181 C CYS 22 ATOM 2181 C CYS 22 ATOM 2177 CA CYS 22 ATOM 2181 C CYS 22 AT									
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ATOM 2163 CB LEU 20 56.213 -3.733 7.260 1.00 14.78 H ATOM 2164 CG LEU 20 55.268 -4.781 7.733 1.00 14.78 H ATOM 2165 CD1 LEU 20 54.509 -5.404 6.602 1.00 14.78 H ATOM 2166 CD2 LEU 20 56.127 -5.774 8.439 1.00 14.78 H ATOM 2168 O LEU 20 58.541 -2.421 5.964 1.00 14.78 H ATOM 2169 N SER 21 56.884 -0.939 5.774 1.00 8.24 H ATOM 2170 H SER 21 55.925 -0.763 5.703 1.00 0.00 H ATOM 2171 CA SER 21 56.510 2.075 5.088 1.00 36.84 H ATOM 2173 OG SER 21 56.572 2.861 4.527 1.00 0.00 H ATOM 2175 C SER 21 56.772 0.861 4.527 1.00 0.00 H ATOM 2176 O SER 21 57.764 0.885 7.176 1.00 8.24 H ATOM 2177 N CYS 22 58.861 1.578 7.482 1.00 22.74 H ATOM 2178 H CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2180 C CYS 22 59.832 3.599 8.350 1.00 22.74 H	AIOM	2162	CA LE	EU 20	56.36	2 -3.288			
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ATOM 2165 CD1 LEU 20 54.509 -5.404 6.602 1.00 14.78 HATOM 2166 CD2 LEU 20 56.127 -5.774 8.439 1.00 14.78 HATOM 2168 O LEU 20 58.541 -2.421 5.964 1.00 14.78 HATOM 2170 H SER 21 56.884 -0.939 5.774 1.00 8.24 HATOM 2171 CA SER 21 57.803 0.176 5.827 1.00 8.24 HATOM 2173 OG SER 21 ATOM 2174 HG SER 21 56.510 2.075 5.088 1.00 36.84 HATOM 2175 C SER 21 56.572 2.861 4.527 1.00 0.00 HATOM 2176 O SER 21 57.764 0.885 7.176 1.00 8.24 HATOM 2177 N CYS 22 58.861 1.578 7.482 1.00 22.74 HATOM 2179 CA CYS 22 59.832 3.599 8.350 1.00 22.74 HATOM 2180 C CYS 22 59.832 3.599 8.350 1.00 22.74 HATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 HATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 HATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 HATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74									Н
ATOM 2166 CD2 LEU 20 54.509 -5.404 6.602 1.00 14.78 HATOM 2167 C LEU 20 56.127 -5.774 8.439 1.00 14.78 HATOM 2168 O LEU 20 58.541 -2.421 5.964 1.00 14.78 HATOM 2170 H SER 21 56.884 -0.939 5.774 1.00 8.24 HATOM 2171 CA SER 21 57.803 0.176 5.827 1.00 8.24 HATOM 2172 CB SER 21 57.481 1.130 4.698 1.00 36.84 HATOM 2173 OG SER 21 56.510 2.075 5.088 1.00 36.84 HATOM 2174 HG SER 21 56.572 2.861 4.527 1.00 0.00 HATOM 2175 C SER 21 57.764 0.885 7.176 1.00 8.24 HATOM 2176 O SER 21 57.764 0.885 7.176 1.00 8.24 HATOM 2177 N CYS 22 59.881 1.578 7.482 1.00 22.74 HATOM 2179 CA CYS 22 59.832 3.599 8.350 1.00 22.74 HATOM 2180 C CYS 22 59.832 3.599 8.350 1.00 22.74 HATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 HATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 HATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 HATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74							7.733	1.00 14.78	Н
ATOM 2166 CD2 LEU 20 56.127 -5.774 8.439 1.00 14.78 HATOM 2168 O LEU 20 58.541 -2.421 5.964 1.00 14.78 HATOM 2169 N SER 21 56.884 -0.939 5.774 1.00 8.24 HATOM 2170 H SER 21 57.803 0.176 5.827 1.00 8.24 HATOM 2172 CB SER 21 57.481 1.130 4.698 1.00 36.84 HATOM 2174 HG SER 21 56.510 2.075 5.088 1.00 36.84 HATOM 2175 C SER 21 57.764 0.885 7.176 1.00 8.24 HATOM 2176 O SER 21 57.764 0.885 7.176 1.00 8.24 HATOM 2177 N CYS 22 59.592 1.575 6.844 1.00 0.00 HATOM 2178 H CYS 22 59.832 3.599 8.350 1.00 22.74 HATOM 2180 C CYS 22 59.832 3.599 8.350 1.00 22.74 HATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 HATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 HATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 HATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74					54.50	9 -5.404	6.602	2 1 00 14 78	Н
ATOM 2167 C LEU 20 57.358 -2.174 5.830 1.00 22.99 H ATOM 2168 O LEU 20 58.541 -2.421 5.964 1.00 14.78 H ATOM 2169 N SER 21 56.884 -0.939 5.774 1.00 8.24 H ATOM 2170 H SER 21 55.925 -0.763 5.703 1.00 0.00 H ATOM 2171 CA SER 21 57.803 0.176 5.827 1.00 8.24 H ATOM 2172 CB SER 21 57.481 1.130 4.698 1.00 36.84 H ATOM 2174 HG SER 21 56.510 2.075 5.088 1.00 36.84 H ATOM 2175 C SER 21 57.764 0.885 7.176 1.00 8.24 H ATOM 2176 O SER 21 56.778 0.799 7.919 1.00 36.84 H ATOM 2178 H CYS 22 59.881 1.578 7.482 1.00 22.74 H ATOM 2181 C CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2181 C CYS 22 59.832 3.599 8.350 1.00 22.74 H	MOTA	2166	CD2 L	EU 20					
ATOM 2168 O LEU 20 58.541 -2.421 5.964 1.00 14.78 H ATOM 2169 N SER 21 56.884 -0.939 5.774 1.00 8.24 H ATOM 2170 H SER 21 55.925 -0.763 5.703 1.00 0.00 H ATOM 2171 CA SER 21 57.481 1.130 4.698 1.00 36.84 H ATOM 2173 OG SER 21 56.510 2.075 5.088 1.00 36.84 H ATOM 2174 HG SER 21 56.572 2.861 4.527 1.00 0.00 H ATOM 2175 C SER 21 57.764 0.885 7.176 1.00 8.24 H ATOM 2176 O SER 21 56.778 0.799 7.919 1.00 36.84 H ATOM 2177 N CYS 22 58.861 1.578 7.482 1.00 22.74 H ATOM 2179 CA CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 H		2167	C 10						
ATOM 2169 N SER 21 56.884 -0.939 5.774 1.00 8.24 H ATOM 2171 CA SER 21 57.803 0.176 5.827 1.00 8.24 H ATOM 2172 CB SER 21 57.481 1.130 4.698 1.00 36.84 H ATOM 2174 HG SER 21 56.510 2.075 5.088 1.00 36.84 H ATOM 2175 C SER 21 57.764 0.885 7.176 1.00 8.24 H ATOM 2176 O SER 21 57.764 0.885 7.176 1.00 8.24 H ATOM 2177 N CYS 22 58.861 1.578 7.482 1.00 22.74 H ATOM 2179 CA CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 H							5.830	1.00 22.99	Н
ATOM 2169 N SER 21 56.884 -0.939 5.774 1.00 8.24 H ATOM 2171 CA SER 21 57.803 0.176 5.827 1.00 8.24 H ATOM 2172 CB SER 21 57.803 0.176 5.827 1.00 8.24 H ATOM 2173 OG SER 21 56.510 2.075 5.088 1.00 36.84 H ATOM 2174 HG SER 21 56.572 2.861 4.527 1.00 0.00 H ATOM 2176 O SER 21 57.764 0.885 7.176 1.00 8.24 H ATOM 2177 N CYS 22 59.8861 1.578 7.482 1.00 22.74 H ATOM 2179 CA CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2180 C CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 H				U 20	58.541	-2.421	5.964	1.00 14 78	
ATOM 2170 H SER 21 55.925 -0.763 5.703 1.00 0.00 H ATOM 2171 CA SER 21 57.803 0.176 5.827 1.00 8.24 H ATOM 2173 OG SER 21 56.510 2.075 5.088 1.00 36.84 H ATOM 2175 C SER 21 57.764 0.885 7.176 1.00 8.24 H ATOM 2176 O SER 21 56.772 2.861 4.527 1.00 0.00 H ATOM 2177 N CYS 22 58.861 1.578 7.482 1.00 22.74 H ATOM 2179 CA CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 H	ATOM	2169	N SF	R 21					
ATOM 2171 CA SER 21 57.803 0.176 5.827 1.00 8.24 H ATOM 2172 CB SER 21 57.481 1.130 4.698 1.00 36.84 H ATOM 2174 HG SER 21 56.510 2.075 5.088 1.00 36.84 H ATOM 2175 C SER 21 57.764 0.885 7.176 1.00 8.24 H ATOM 2176 O SER 21 57.764 0.885 7.176 1.00 8.24 H ATOM 2177 N CYS 22 58.861 1.578 7.482 1.00 22.74 H ATOM 2178 H CYS 22 59.592 1.575 6.844 1.00 0.00 H ATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 H									
ATOM 2171 CA SER 21 57.803 0.176 5.827 1.00 8.24 H ATOM 2172 CB SER 21 57.481 1.130 4.698 1.00 36.84 H ATOM 2174 HG SER 21 56.510 2.075 5.088 1.00 36.84 H ATOM 2175 C SER 21 56.572 2.861 4.527 1.00 0.00 H ATOM 2176 O SER 21 56.778 0.799 7.919 1.00 36.84 H ATOM 2177 N CYS 22 58.861 1.578 7.482 1.00 22.74 H ATOM 2178 H CYS 22 59.046 2.339 8.712 1.00 22.74 H ATOM 2180 C CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2181 C CYS 22 59.832 3.599 8.350 1.00 22.74 H						-0.763	5.703	1.00 0.00	Н
ATOM 2172 CB SER 21 57.481 1.130 4.698 1.00 36.84 H ATOM 2173 OG SER 21 56.510 2.075 5.088 1.00 36.84 H ATOM 2174 HG SER 21 56.572 2.861 4.527 1.00 0.00 H ATOM 2176 O SER 21 56.778 0.799 7.919 1.00 36.84 H ATOM 2177 N CYS 22 58.861 1.578 7.482 1.00 22.74 H ATOM 2178 H CYS 22 59.046 2.339 8.712 1.00 22.74 H ATOM 2180 C CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 H		21/1	CA SE	ER 21	57.80	3 0.176	5.827	1.00 8.24	
ATOM 2173 OG SER 21 56.510 2.075 5.088 1.00 36.84 H ATOM 2174 HG SER 21 56.572 2.861 4.527 1.00 0.00 H ATOM 2176 O SER 21 56.778 0.799 7.919 1.00 36.84 H ATOM 2177 N CYS 22 58.861 1.578 7.482 1.00 22.74 H ATOM 2178 H CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2180 C CYS 22 59.832 3.599 8.350 1.00 22.74 H	ATOM	2172	CB SF		-				
ATOM 2174 HG SER 21 56.572 2.861 4.527 1.00 0.00 H ATOM 2175 C SER 21 56.778 0.799 7.919 1.00 36.84 H ATOM 2177 N CYS 22 58.861 1.578 7.482 1.00 22.74 H ATOM 2179 CA CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2180 C CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2181 C CYS 22 59.832 3.599 8.350 1.00 22.74 H		2173	00 01	ED 24			4.090	1.00 30.84	
ATOM 2174 HG SER 21 56.572 2.861 4.527 1.00 0.00 H ATOM 2175 C SER 21 57.764 0.885 7.176 1.00 8.24 H ATOM 2176 O SER 21 56.778 0.799 7.919 1.00 36.84 H ATOM 2177 N CYS 22 58.861 1.578 7.482 1.00 22.74 H ATOM 2178 H CYS 22 59.592 1.575 6.844 1.00 0.00 H ATOM 2179 CA CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 H		2474	UC 5				5.088	1.00 36.84	Н
ATOM 2175 C SER 21 57.764 0.885 7.176 1.00 8.24 H ATOM 2176 O SER 21 56.778 0.799 7.919 1.00 36.84 H ATOM 2177 N CYS 22 58.861 1.578 7.482 1.00 22.74 H ATOM 2178 H CYS 22 59.592 1.575 6.844 1.00 0.00 H ATOM 2179 CA CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2181 O CYS 22 59.832 3.599 8.350 1.00 22.74 H					56.57	2 2.861	4.527	1.00 0.00	
ATOM 2176 O SER 21 56.778 0.799 7.919 1.00 36.84 H ATOM 2177 N CYS 22 58.861 1.578 7.482 1.00 22.74 H ATOM 2178 H CYS 22 59.592 1.575 6.844 1.00 0.00 H ATOM 2180 C CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2181 O CYS 23 59.832 3.599 8.350 1.00 22.74 H	ATOM	2175	C SEI	R 21			7 176	1.00 8.24	
ATOM 2177 N CYS 22 58.861 1.578 7.482 1.00 22.74 H ATOM 2178 H CYS 22 59.592 1.575 6.844 1.00 0.00 H ATOM 2180 C CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2181 C CYS 22 59.832 3.599 8.350 1.00 22.74 H	MOTA								
ATOM 2178 H CYS 22 59.592 1.575 6.844 1.00 0.00 H ATOM 2179 CA CYS 22 59.046 2.339 8.712 1.00 22.74 H ATOM 2180 C CYS 22 59.832 3.599 8.350 1.00 22.74 H ATOM 2181 C CYS 22 59.832 3.599 8.350 1.00 22.74 H									Н
ATOM 2178 H CYS 22 59.592 1.575 6.844 1.00 0.00 H ATOM 2179 CA CYS 22 59.046 2.339 8.712 1.00 22.74 H ATOM 2180 C CYS 22 59.832 3.599 8.350 1.00 22.74 H					58.861	1.578	7.482	1.00 22.74	Н
ATOM 2179 CA CYS 22 59.046 2.339 8.712 1.00 22.74 H ATOM 2180 C CYS 22 59.832 3.599 8.350 1.00 22.74 H	ATOM	2178	H CY	S 22					
ATOM 2180 C CYS 22 59.832 3.599 8.350 1.00 22.74 H	MOTA								
ATOM 2181 O CVS 22 C4 052 0.553 0.550 1.00 22.74 H									Н
ATOM 2181 O CVS 22 C4 050 0 504							8.350	1.00 22.74	Н
- 1100 Z0.70 M	MOTA	2181	O CY	S 22	61.052				
					- 7.002	0.007	J. 103	1.00 20.70	П

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ATOM	2182	CB C	YS 22	59.841 1.528 9.725 1.00 2	28.76 H
ATOM		SG C			
ATOM		N LY		59,110 4,715 8,237 1,00 17	
ATOM	2185	• • • • •	_	58.146 4.656 8.403 1.00 0	
ATOM		CA LY		59.667 6.019 7.880 1.00 1	
ATOM	2187			58.608 6.841 7.161 1.00 3	
ATOM		CG LY			
ATOM		CD LY		58.533 9.297 6.600 1.00 3	
ATOM		CE LY		59.370 10.420 5.963 1.00 3	
ATOM	2191			60.710 9.937 5.452 1.00 3	
ATOM		HZ1 L			
ATOM		HZ2 L			
ATOM		HZ3 L			
ATOM	2195			60.208 6.793 9.065 1.00 17	
ATOM	2196			59.502 7.058 10.041 1.00 3	
ATOM	2197			61.467 7.181 8.945 1.00 10	
ATOM	2198			61.914 6.970 8.106 1.00 0	
ATOM		CA AL		62.186 7.887 9.980 1.00 1	
ATOM		CB AL		63.607 7.308 10.100 1.00 3	
ATOM	2201			62.269 9.401 9.796 1.00 10	
ATOM	2202			62.185 9.908 8.660 1.00 32	
MOTA	2203			62.441 10.114 10.921 1.00 1	
MOTA	2204			62.453 9.648 11.771 1.00 (
MOTA	2205	CA SE		62.575 11.571 10.892 1.00	
MOTA	2206	CB SE			32.82 H
MOTA		OG SE			
MOTA	2208	HG SE			
MOTA	2209	C SE		62.991 12.258 12.216 1.00 1	
ATOM	2210	O SE		62.701 11.777 13.337 1.00 3	
MOTA	2211	N GL		63.660 13.404 12.078 1.00 4	
MOTA	2212	H GL		63.881 13.742 11.193 1.00 (
MOTA	2213	CA GL	Y 26	64.070 14.159 13.251 1.00	
MOTA	2214	C GL'	Y 26	65.429 13.808 13.823 1.00 4	
MOTA	2215	O GL	Y 26	65.846 14.325 14.864 1.00 3	
MOTA	2216	N TYP	R 27	66.118 12.894 13.161 1.00 4	
ATOM	2217	H TYF	R 27	65.731 12.447 12.374 1.00 (
ATOM	2218	CA TY		67.440 12.525 13.603 1.00	
ATOM	2219	CB TY			20.20 H
ATOM	2220			67.007 10.061 14.159 1.00	20.20 H
MOTA		CD1 T			
MOTA		CE1 TY		65.420 8.275 13.711 1.00	20.20 H
ATOM		CD2 T			20.20 H
ATOM		CE2 TY			20.20 H
AŢOM		CZ TY		66.462 7.423 13.350 1.00 2	0.20 H
ATOM		OH TY		66.239 6.139 12.915 1.00 2	20.20 H
MOTA		HH TY	R 27	66.587 5.505 13.539 1.00	0.00 H
ATOM	2228			68.191 12.104 12.332 1.00 4	4.12 H
ATOM	2229			67.593 12.129 11.253 1.00 2	0.20 H
ATOM	2230		28	69.480 11.772 12.435 1.00 10	.47 H
ATOM	2231		28	69.917 11.790 13.298 1.00 0.	
ATOM		CA ILE		70.243 11.378 11.276 1.00 10	0.47 H
ATOM		CB ILE		71.794 11.413 11.504 1.00 12	2.16 H
ATOM		CG2 ILI		72.464 10.786 10.288 1.00 1	2.16 H
ATOM		CG1 ILI		72.325 12.826 11.837 1.00 1	2.16 H
ATOM		CD1 ILE		71.558 13.991 11.269 1.00 1	2.16 H
MOTA	2237	C ILE	28	69.891 9.926 11.109 1.00 10.	47 H

ATOM	2238	3 O ILE	28	70.309 9.067 11.914 1.00 12.16	Н	
ATOM			29	69.120 9.640 10.076 1.00 42.35	·н	
ATOM			29	68.788 10.349 9.491 1.00 0.00	H	
ATOM		CA PHE		68.751 8.268 9.831 1.00 42.35	.H	
ATOM		CB PHE		68.190 8.120 8.421 1.00 34.12	H	
ATOM		G PHE		67.458 6.849 8.219 1.00 34.12	H	
ATOM		CD1 PH		66.643 6.353 9.217 1.00 34,12	H	
ATOM		CD2 PHE		67.587 6.132 7.045 1.00 34.12	H	
ATOM		CE1 PHE		65.963 5.164 9.060 1.00 34.12	H	
MOTA		CE2 PHE		66.894 4.918 6.873 1.00 34.12	Н	
ATOM		CZ PHE		66.082 4.441 7.889 1.00 34.12	H	
ATOM	2249	C PHE	29	69.944 7.300 10.024 1.00 42.35	H	
ATOM	2250	O PHE	29	69.863 6.318 10.787 1.00 34.12	H	
ATOM	2251	N THR	30	71.053 7.588 9.349 1.00 33.79	H	
ATOM	2252	H THR	30	71.081 8.392 8.788 1.00 0.00	H	
ATOM	2253	CA THR	30	72.200 6.707 9.437 1.00 33.79	Н	
ATOM	2254	CB THR		73.218 6.945 8.283 1.00 24.98	Н	
ATOM	2255	OG1 THE	₹ 30	73.874 8.212 8.446 1.00 24.98	Н	
ATOM	2256	HG1 THF	30	73.882 8.445 9.368 1.00 0.00	Н	
ATOM	2257	CG2 THF	30	72.528 6.895 6.970 1.00 24.98	Н	
ATOM	2258	C THR	30	72.935 6.773 10.753 1.00 33,79	Н	
ATOM	2259	O THR	30	73.900 6.016 10.975 1.00 24.98	Н	
ATOM	2260		31	72.494 7.640 11.654 1.00 14.45	Н	
ATOM		H SER	31	71.741 8.209 11.466 1.00 0.00	Н	
ATOM		CA SER		73.215 7.697 12.932 1.00 14.45	Н	
ATOM		CB SER		73.156 9.068 13.532 1.00 33.90	Н	
ATOM		OG SER		73.874 9.952 12.709 1.00 33.90	H	
ATOM		HG SER		74.540 9.473 12.206 1.00 0.00	Н	
ATOM	2266		31	72.757 6.698 13.972 1.00 14.45	Н	
ATOM	2267		31	73.336 6.670 15.046 1.00 33.90	Н	
ATOM			32	71.738 5.880 13.649 1.00 30.58	Н	
ATOM			32	71.343 5.970 12.762 1.00 0.00	Н	
ATOM		CA TYR	32	71.183 4.859 14.565 1.00 30.58	Н	
ATOM		CB TYR	32	69.888 5.364 15.223 1.00 28.19	Н	
ATOM		CG TYR	32	70.100 6.552 16.110 1.00 28.19	Н	
MOTA		CD1 TYR		70.137 6.414 17.507 1.00 28.19	Н	
ATOM ATOM		CE1 TYR		70.417 7.502 18.318 1.00 28.19	Н	
ATOM		CD2 TYR		70.337 7.805 15.564 1.00 28.19	Н	
MOTA		CZ TYR		70.616 8.883 16.355 1.00 28.19	Н	
ATOM		OH TYR	32 32	70.664 8.739 17.725 1.00 28.19	Н	
ATOM		HH TYR	32	71.011 9.840 18.493 1.00 28.19	Н	
ATOM	2280		32	70.257 10.121 19.007 1.00 0.00 70.839 3.553 13.864 1.00 30.58	H	
ATOM	2281		32		Н	
ATOM	2282		33		Н	
ATOM	2283		33		H	
ATOM		CA TYR	33	70.421 1.187 13.985 1.00 37.56	Η	
ATOM		CB TYR	33	71.029 -0.025 14.711 1.00 61.84	H	
ATOM		CG TYR	33	72.439 -0.351 14.312 1.00 61.84	H H	
ATOM		CD1 TYR	33	73.427 0.638 14.351 1.00 61.84	Н	
ATOM		CE1 TYR	33	74.743 0.365 14.011 1.00 61.84	Н	
ATOM		CD2 TYR	33	72.801 -1.635 13.915 1.00 61.84	Н	
MOTA		CE2 TYR	33	74.120 -1.928 13.568 1.00 61.84	H	
ATOM	2291	CZ TYR	33	75.090 -0.915 13.620 1.00 61.84	H	
ATOM		OH TYR	33	76.407 -1.150 13.279 1.00 61.84	H	
MOTA	2293	HH TYR	33	76.952 -0.425 13.591 1.00 0.00	H	

АТОМ	2294	C TYR	33	68.897 1.077 14.106 1.00 37.56	Н
ATOM	2295		33	68.316 1.473 15.124 1.00 61.84	H
ATOM	2296		34	68.248 0.548 13.076 1.00 36.91	H
ATOM	2297	H MET	34	68.744 0.286 12.269 1.00 0.00	Н
ATOM	2298	CA MET	34	66.813 0.340 13.169 1.00 36.91	Н
ATOM	2299	CB MET	34	66.155 0.427 11.810 1.00 19.77	Н
ATOM	2300	CG MET	34	64.700 0.635 11.927 1.00 19.77	Н
ATOM	2301			64.398 1.929 13.180 1.00 19.77	Н
ATOM		CE MET		64.346 3.399 12.044 1.00 19.77	Н
ATOM	2303		34	66.591 -1.077 13.724 1.00 36.91	Н
ATOM	2304		34	67.130 -2.051 13.209 1.00 19.77	Н
ATOM	2305		35	65.824 -1.176 14.798 1.00 21.06	Н
MOTA MOTA	2306	H TYR CA TYR	35 35	65.467 -0.355 15.180 1.00 0.00 65.516 -2.455 15.408 1.00 21.06	Н
ATOM	2308		35	65.419 -2.307 16.917 1.00 29.33	Н
ATOM		CG TYR	35	66.694 -2.540 17.654 1.00 29.33	H
ATOM		CD1 TYR		67.674 -3.344 17.134 1.00 29.33	H
ATOM		CE1 TYR		68.813 -3.607 17.832 1.00 29.33	H
ATOM		CD2 TYR		66.890 -1.996 18.891 1.00 29.33	H
ATOM		CE2 TYR		68.029 -2.256 19.600 1.00 29.33	H
ATOM		CZ TYR	35	68.990 -3.066 19.069 1.00 29.33	H
MOTA	2315	OH TYR	35	70.123 -3.355 19.785 1.00 29.33	Н
ATOM		HH TYR	35	69.906 -3.934 20.517 1.00 0.00	Н
ATOM	2317		35	64.150 -2.853 14.922 1.00 21.06	. Н
ATOM	2318		35	63.326 -1.975 14.647 1.00 29.33	Н
ATOM	2319		36	63.900 -4.157 14.812 1.00 18.09	Н
MOTA	2320		36	64.603 -4.804 15.009 1.00 0.00	Η
MOTA	2321	CA TRP	36	62.568 -4.630 14.412 1.00 18.09	H
MOTA MOTA		CG TRP	36 36	62.617 -5.346 13.089 1.00 27.88 62.570 -4.415 11.943 1.00 27.88	H
ATOM		CD2 TRP		61.405 -3.823 11.333 1.00 27.88	H
ATOM		CE2 TRP	36	61.851 -3.078 10.232 1.00 27.88	H
ATOM		CE3 TRP	36	60.044 -3.853 11.609 1.00 27.88	H
ATOM		CD1 TRP	36	63.620 -4.011 11.219 1.00 27.88	H
ATOM	2328	NE1 TRP	36	63.207 -3.209 10.188 1.00 27.88	H
MOTA	2329	HE1 TRP	36	63.804 -2.806 9.519 1.00 0.00	H
ATOM		CZ2 TRP	36	60.992 -2.369 9.404 1.00 27.88	Н
ATOM	2331	CZ3 TRP	36	59.191 -3.148 10.791 1.00 27.88	Н
ATOM		CH2 TRP	36	59.668 -2.414 9.699 1.00 27.88	Н
ATOM		C TRP	36	61.977 -5.542 15.487 1.00 18.09	Н
ATOM		O TRP	36	62.628 -6.482 15.960 1.00 27.88	Н
MOTA MOTA	2335	N VAL H VAL	37 37	60.746 -5.257 15.896 1.00 34.15	H
ATOM		CA VAL	37	60.286 -4.532 15.497 1.00 0.00	Η
ATOM		CB VAL	37	60.138 -6.059 16.944 1.00 34.15 60.069 -5.267 18.250 1.00 13.93	Н
ATOM		CG1 VAL	37	59.221 -6.000 19.230 1.00 13.93	Н
ATOM		CG2 VAL	37	61.454 -5.036 18.803 1.00 13.93	H
ATOM			37	58.753 -6.589 16.642 1.00 34.15	н''
ATOM	2342		37	57.922 -5.875 16.098 1.00 13.93	H
MOTA	2343	N LYS	38	58.531 -7.849 17.027 1.00 24.97	H
ATOM	2344		38	59.266 -8.335 17.439 1.00 0.00	H
ATOM		CA LYS	38	57.243 -8.555 16.855 1.00 24.97	Н
ATOM		CB LYS	38	57.522 -9.984 16.354 1.00 5.77	Н
MOTA		CG LYS	38	56.546 -11.053 16.729 1.00 5.77	Н
ATOM		CD LYS	38	56.393 -12.023 15.586 1.00 5.77	Н
ATOM	2349	CE LYS	38	55.655 -13.289 15.976 1.00 5.77	Н

ATOM	235	0 N	Z LYS	38	55.317 -14.026 14.762 1.00 5.77	Н
ATOM			Z1 LYS		54.470 -13.619 14.310 1.00 0.00	H
ATOM			Z2 LYS		55.186 -15.043 14.923 1.00 0.00	H
ATOM			Z3 LYS		56.113 -13.870 14.106 1.00 0.00	H
ATOM			LYS	38	56.464 -8.605 18.168 1.00 24.97	Н
ATOM			LYS	38	57.067 -8.768 19.224 1.00 5.77	Н
ATOM			GLN	39	55.143 -8.439 18.107 1.00 33.27	Н
ATOM			GLN	39	54.730 -8.262 17.248 1.00 0.00	Н
ATOM			A GLN		54.291 -8.546 19.306 1.00 33.27	Н
ATOM			3 GLN		53.985 -7.190 19.917 1.00 14.44	Н
ATOM			G GLN		53.420 -7.288 21.356 1.00 14.44	Н
ATOM			O GLN		53.179 -5.885 22.022 1.00 14.44	
ATOM			E1 GLN		52.783 -4.891 21.361 1.00 14.44	H
ATOM			E2 GLN		53.418 -5.823 23.338 1.00 14.44	
ATOM			21 GLI			Н
ATOM			22 GLI			Н
ATOM			GLN	39	52.973 -9.258 18.970 1.00 33.27	Н
ATOM			GLN	39	52.030 -8.661 18.428 1.00 14.44	Н
ATOM	2368		ALA	40	52.935 -10.552 19.272 1.00 26.24	Н
ATOM	2369		ALA	40	53.732 -10.985 19.662 1.00 0.00	H
ATOM			ALA	40 .	m 4 m = 4	
ATOM	2371		3 ALA	40	52.125 -12.793 18.480 1.00 14.64	H
ATOM	2372		ALA	40	50.987 -11.468 20.284 1.00 26.24	Н
ATOM	2373	-	ALA	40	51.592 -11.460 21.370 1.00 14.64	Н
ATOM	2374		PRO	41	49.645 -11.637 20.157 1.00 29.21	H
ATOM	2375		PRO		49.047 -11.871 18.829 1.00 43.07	Н
ATOM			PRO		48.618 -11.771 21.199 1.00 29.21	Н
ATOM			PRO	41	47.708 -12.888 20.655 1.00 43.07	Н
ATOM	2378		PRO		48.045 -12.972 19.129 1.00 43.07	Н
ATOM	2379		PRO	41	49.239 -12.170 22.511 1.00 29.21	H
ATOM	2380		PRO	41	50.060 -13.097 22.540 1.00 43.07	H
ATOM	2381	N	GLY	42	48.862 -11.493 23.585 1.00 19.68	Н
ATOM	2382	Н	GLY	42	48.207 -10.765 23.535 1.00 0.00	H
ATOM	2383		GLY	42	49.414 -11.844 24.881 1.00 19.68	Ή
ATOM	2384	С	GLY	42	50.770 -12.553 24.808 1.00 19.68	H
ATOM	2385	0	GLY	42	50.990 -13.679 25.351 1.00 22.09	H
ATOM	2386	N	GLN	43	51.691 -11.932 24.066 1.00 34.93	H
ATOM	2387	Н	GLN	43	51.458 -11.121 23.574 1.00 0.00	H
MOTA	2388	CA	GLN	43	53.039 -12.465 23.984 1.00 34.93	Н
ATOM	2389	CB	GLN	43	53.365 -12.965 22.575 1.00 49.66	Н
ATOM			GLN	43	54.851 -12.833 22.161 1.00 49.66	Н
MOTA	2391		GLN	43	55.753 -13.915 22.754 1.00 49.66	Н
ATOM			1 GLN	43	55.820 -15.058 22.255 1.00 49.66	Н
MOTA			2 GLN	43	56.466 -13.558 23.815 1.00 49.66	Н
ATOM			21 GLN		56.583 -14.216 24.540 1.00 0.00	Н
ATOM			22 GLN	43	56.848 -12.662 23.840 1.00 0.00	Н
ATOM	2396		GLN	43	53.910 -11.285 24.350 1.00 34.93	Н
ATOM	2397		GLN	43	53.450 -10.127 24.380 1.00 49.66	Н
MOTA	2398		GLY	44	55.160 -11.576 24.677 1.00 45.30	Н
ATOM	2399		GLY	44	55.456 -12.498 24.727 1.00 0.00	Н
MOTA	2400			44	56.085 -10.512 25.004 1.00 45.30	Н
MOTA	2401		GLY	44	56.449 -9.774 23.735 1.00 45.30	Н
ATOM			GLY	44	55.608 -9.493 22.873 1.00 14.53	Н
MOTA	2403		LEU	45	57.727 -9.456 23.622 1.00 21.29	Н
ATOM	2404			45		H
ATOM	2405	CA	LEU	45	58.218 -8.745 22.461 1.00 21.29	Н

ATOM	2406	CB LEU	45	58.612 -7.335 22.865 1.00 43.56	Н
ATOM		CG LEU	45	57.549 -6.242 22.978 1.00 43.56	Н
ATOM		CD1 LEU		56.294 -6.670 22.310 1.00 43.56	Н
ATOM		CD2 LEU		57.325 -5.920 24.430 1.00 43.56	H
ATOM	2410	C LEU	45	59.435 -9.492 21.926 1.00 21.29	н.
			45	60.534 -9.375 22.475 1.00 43.56	H
MOTA	2411			59.272 -10.305 20.897 1.00 43.50	H
ATOM	2412	N GLU	46		
ATOM		H GLU	46	58.383 -10.449 20.510 1.00 0.00	Н
ATOM		CA GLU	46	60.449 -10.980 20.364 1.00 14.08	H
MOTA		CB GLU	46	60.059 -12.144 19.442 1.00 26.79	H
ATOM		CG GLU		60.049 -13.517 20.063 1.00 26.79	Н
MOTA		CD GLU	46	60.066 -14.611 18.999 1.00 26.79	H
ATOM	2418	OE1 GLU			
ATOM		OE2 GLU			
ATOM	2420	C GLU	46	61.186 -9.920 19.525 1.00 14.08	Н
ATOM	2421	O GLU	46	60.576 -9.200 18.722 1.00 26.79	Н
ATOM	2422		47	62.494 -9.815 19.737 1.00 22.21	Н
MOTA	2423	H TRP	47	62.917 -10.370 20.437 1.00 0.00	Н
ATOM	2424	CA TRP	47	63.310 -8.907 18.949 1.00 22.21	Н
ATOM	2425	CB TRP	47	64.594 -8.542 19.682 1.00 29.90	Н
ATOM	2426	CG TRP	47	65.571 -7.902 18.805 1.00 29.90	Н
ATOM	2427	CD2 TRP	47	66.657 -8.542 18.106 1.00 29.90	Н
ATOM	2428	CE2 TRP	47	67.369 -7.530 17.431 1.00 29.90	Н
ATOM	2429	CE3 TRP	47	67.098 -9.873 17.992 1.00 29.90	Н
ATOM	2430	CD1 TRP	47	65.657 -6.591 18.527 1.00 29.90	Н
ATOM	2431	NE1 TRP	47	66.736 -6.346 17.701 1.00 29.90	Н
ATOM		HE1 TRP		67.004 -5.470 17.367 1.00 0.00	Н
ATOM		CZ2 TRP		68.497 -7.801 16.650 1.00 29.90	H
ATOM		CZ3 TRP		68.204 -10.141 17.220 1.00 29.90	н
ATOM		CH2 TRP		68.898 -9.106 16.556 1.00 29.90	Н
ATOM	2436	C TRP	47	63.643 -9.693 17.690 1.00 22.21	н.
ATOM	2437	O TRP	47	64.148 -10.807 17.762 1.00 29.90	H
ATOM	2438		48	63,326 -9.115 16.543 1.00 23.00	н''
ATOM			48		H.
MOTA		CA ILE	48	63.568 -9.765 15.275 1.00 23.00	Н
ATOM	2441	CB ILE	48	62.694 -9.158 14.184 1.00 20.72	Н
ATOM		CG2 ILE	48	63.140 -9.674 12.815 1.00 20.72	Н
ATOM		CG1 ILE	48	61.240 -9.496 14.433 1.00 20.72	H
ATOM	2444	CD1 ILE	48	60.340 -8.775 13.502 1.00 20.72	H
ATOM	2445		48	65.020 -9.663 14.790 1.00 23.00	н
ATOM	2446		48	65.760 -10.666 14.666 1.00 20.72	H
ATOM	2447		49	65.403 -8.435 14.484 1.00 27.67	H
ATOM	2448		49	64.784 -7.681 14.596 1.00 0.00	H
ATOM		CA GLY	49	66.736 -8.190 14.005 1.00 27.67	H
ATOM	2450		49	67.013 -6.703 13.986 1.00 27.67	H
ATOM	2451	O GLY	49	66.229 -5.883 14.496 1.00 22.93	H
ATOM	2452		50	68.156 -6.379 13.390 1.00 26.92	H
ATOM		H GLU	50	68.708 -7.104 13.038 1.00 0.00	H
ATOM		CA GLU	50		
ATOM		CB GLU	50	68.632 -5.018 13.239 1.00 26.92	Н
ATOM		CG GLU	50	69.680 -4.706 14.293 1.00 26.25	Н
ATOM		CD GLU	50	70.860 -5.630 14.202 1.00 26.25	Н
ATOM		OE1 GLU		71.876 -5.411 15.298 1.00 26.25	H
ATOM		OE2 GLU		71.862 -4.347 15.950 1.00 26.25	Н
ATOM	2459		50 50	72.707 -6.302 15.516 1.00 26.25	ιН
ATOM	2461	O GLU	50	69.278 -4.838 11.880 1.00 26.92	Н
A LOIVI	2701	O GLU	50	69.686 -5.790 11.219 1.00 26.25	Н

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ATOM 2462 N ILE 51
                         69.334 -3.587 11.481 1.00 24.38
 ATOM 2463 H ILE 51
                          68.929 -2.899 12.052 1.00 0.00
 ATOM 2464 CA ILE 51
                           69.961 -3.166 10.254 1.00 24.38
                                                         Н
 ATOM 2465 CB ILE 51
                           68.970 -2.728 9.151 1.00 23.54
                                                          Н
                           68.340 -1.360 9.472 1.00 23.54
 ATOM 2466 CG2 ILE 51
 ATOM 2467 CG1 ILE
                            69.725 -2.625 7.830 1.00 23.54
                     51
 ATOM 2468 CD1 ILE 51
                           68.889 -2.959 6.630 1.00 23.54
 ATOM 2469 C ILE 51
                          70.688 -1.919 10.698 1.00 24.38
                                                          Н
 ATOM 2470 O ILE 51
                          70.202 -1.183 11.599 1.00 23.54
 ATOM 2471 N ASN 52
                           71.859 -1.697 10.101 1.00 26.01 72.188 -2.347 9.445 1.00 0.00
                                                         Н
 ATOM 2472 H ASN 52
                                                         Н
 ATOM 2473 CA ASN 52
ATOM 2474 CB ASN 52
ATOM 2475 CG ASN 52
                            72.653 -0.522 10.397 1.00 26.01
                                                           Н
                            74.113 -0.861 10.461 1.00 22.08
                            74.937 0.345 10.616 1.00 22.08
 ATOM 2476 OD1 ASN 52
                            74.534 1.423 10.195 1.00 22.08
 ATOM 2477 ND2 ASN 52
                            76.088 0.203 11.225 1.00 22.08
 ATOM 2478 HD21 ASN 52
                            76.337 0.874 11.902 1.00 0.00
 ATOM 2479 HD22 ASN 52
                           76.662 -0.554 11.003 1.00 0.00
 ATOM 2480 C ASN 52 72.352 0.360 9.201 1.00 26.01
 ATOM .2481 O ASN 52
                           72.916 0.228 8.123 1.00 22.08
 ATOM 2482 N PRO 53
                           71.463 1.305 9.396 1.00 37.04
 ATOM 2483 CD PRO 53
                           70.809 1.629 10.676 1.00 34.04
ATOM 2484 CA PRO 53
                          71.071 2.194 8.309 1.00 37.04
ATOM 2485 CB PRO 53
                            70.280 3.267 9.034 1.00 34.04
ATOM 2486 CG PRO 53
                           69.725 2.525 10.267 1,00 34,04
                                                           Н
ATOM 2487 C PRO 53
                           72.137 2.768 7.356 1.00 37.04
ATOM 2488 O PRO 53
                           71.840 3.078 6.188 1.00 34.04
                                                          Н
ATOM 2489 N SER 54
                          73.371 2.890 7.808 1.00 33.04
                                                         Н
ATOM 2490 H SER 54
                          73.615 2.584 8.705 1.00 0.00
                                                         Н
ATOM 2491 CA SER 54
                          74.365 3.493 6.932 1.00 33.04
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ATOM 2492 CB SER 54
                           75.338 4.319 7.753 1.00 27.00
ATOM 2493 OG SER 54
                           76.247 3.433 8.364 1.00 27.00
ATOM 2494 HG SER 54
                           77.069 3.884 8.593 1.00 0.00
                          75.173 2.455 6.199 1.00 33.04
75.876 2.741 5.223 1.00 27.00
75.055 1.253 6.720 1.00 30.31
74.430 1.156 7.453 1.00 0.00
ATOM 2495 C SER 54
ATOM 2496 O SER
                     54
                                                         Н
ATOM 2497 N ASN
                     55
ATOM 2498 H ASN
                     55
ATOM 2499 CA ASN 55
                          75.791 0.073 6.303 1.00 30.31
ATOM 2500 CB ASN 55
ATOM 2501 CG ASN 55
                           76.051 -0.674 7.607 1.00 42.33
                           77.253 -1.515 7.579 1.00 42.33
ATOM 2502 OD1 ASN 55
                           78.010 -1.557 8.558 1.00 42.33
ATOM 2503 ND2 ASN 55
                           77.446 -2.226 6.488 1.00 42.33
ATOM 2504 HD21 ASN 55
                            77.026 -1.929 5.642 1.00 0.00
                                                          Н
ATOM 2505 HD22 ASN 55
                          77.999 -3.026 6.564 1.00 0.00
                                                          Н
ATOM 2506 C ASN 55 75.021 -0.832 5.354 1.00 30.31
ATOM 2507 O ASN 55
                         75.365 -1.012 4.186 1.00 42.33
ATOM 2508 N GLY 56
                         73.971 -1.412 5.926 1.00 24.50
ATOM 2509 H GLY 56
                         73.762 -1.183 6.857 1.00 0.00
                                                         H
ATOM 2510 CA GLY 56
                         73.136 -2.371 5.250 1.00 24.50
ATOM 2511 C GLY 56
                         73.466 -3.520 6.160 1.00 24.50
ATOM 2512 O GLY 56
                         72.916 -4.611 6.069 1.00 9.61
                                                         Н
ATOM 2513 N ASP 57
                         74.416 -3.253 7.056 1.00 13.70
ATOM 2514 H ASP
                         74.875 -2.407 7.097 1.00 0.00
                    57
ATOM 2515 CA ASP 57
                         74.804 -4.255 8.027 1.00 13.70
ATOM 2516 CB ASP
                        75.573 -3.623 9.200 1.00 44.91
ATOM 2517 CG ASP 57 77.057 -4.032 9.235 1.00 44.91
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ATOM	2518 OD1 AS	SP 57	77.760 -3.670 10.218 1.00 44.91	Н
ATOM			77.511 -4.701 8.277 1.00 44.91	Ĥ
	2519 OD2 AS			
ATOM	2520 C ASF		73.493 -4.871 8.515 1.00 13.70	Н
MOTA	2521 O ASF		72.421 -4.269 8.446 1.00 44.91	Н
MOTA	2522 N THE	₹ 58	73.585 -6.069 9.030 1.00 9.05	Н
ATOM	2523 H THF	₹ 58	74.456 -6.501 9.141 1.00 0.00	Н
ATOM	2524 CA TH	R 58	72.393 -6.730 9.441 1.00 9.05	Н
ATOM	2525 CB TH		71.698 -7.280 8.209 1.00 28.21	Н
ATOM	2526 OG1 TH		70.487 -6.556 7.991 1.00 28.21	Н
ATOM	2527 HG1 TH		70.046 -6.935 7.228 1.00 0.00	Н
ATOM	2528 CG2 Th		71.408 -8.719 8.360 1.00 28.21	H
ATOM	2529 C THF		72.606 -7.845 10.400 1.00 9.05	н
ATOM	2530 O THE		73.418 -8.747 10.140 1.00 28.21	H
			71.886 -7.800 11.513 1.00 9.54	
ATOM	2531 N ASN			H
ATOM	2532 H ASN		71.301 -7.043 11.694 1.00 0.00	Η.
ATOM	2533 CA AS		71.987 -8.896 12.462 1.00 9.54	H
ATOM	2534 CB AS		72.653 -8.437 13.753 1.00 50.65	Н
MOTA	2535 CG AS		74.040 -9.006 13.899 1.00 50.65	Н
ATOM	2536 OD1 AS		74.753 -9.177 12.912 1.00 50.65	Н
ATOM	2537 ND2 AS		74.432 -9.319 15.122 1.00 50.65	Н
MOTA	2538 HD21 A		74.002 -10.083 15.567 1.00 0.00	Н
ATOM	2539 HD22 A	SN 59	75.131 -8.773 15.530 1.00 0.00	Н
ATOM	2540 C ASN		70.586 -9.425 12.675 1.00 9.54	Н
ATOM	2541 O ASN	1 59	69.612 -8.698 12.473 1.00 50.65	Н
MOTA	2542 N PHE	60	70.466 -10.686 13.075 1.00 26.36	Н
ATOM	2543 H PHE	60	71.279 -11.194 13.268 1.00 0.00	Н
ATOM	2544 CA PH	E 60	69.157 -11.304 13.235 1.00 26.36	Н
ATOM	2545 CB PH	E 60	68.823 -12.108 12.027 1.00 34.86	Н
ATOM	2546 CG PH	E 60	68.224 -11.314 10.956 1.00 34.86	Н
ATOM	2547 CD1 Ph	₹E 60	68.857 -11.201 9.740 1.00 34.86	Н
ATOM	2548 CD2 PH	₹E 60	66.989 -10.706 11.146 1.00 34.86	Н
ATOM	2549 CE1 Ph	IE 60	68.264 -10.494 8.718 1.00 34.86	Н
MOTA	2550 CE2 PH	IE 60	66.384 -9.999 10.138 1.00 34.86	Н
MOTA	2551 CZ PH	E 60	67.013 -9.889 8.920 1.00 34.86	H
ATOM	2552 C PHE	60	68.994 -12.237 14.364 1.00 26.36	Н
ATOM	2553 O PHE	60	69.932 -12.913 14.768 1.00 34.86	Н
MOTA	2554 N ASN	J 61	67.779 -12.284 14.886 1.00 23.92	Н
MOTA	2555 H ASN	1 61	67.106 -11.689 14.544 1.00 0.00	Н
MOTA	2556 CA AS	N 61	67.530 -13.223 15.928 1.00 23.92	Н
MOTA	2557 CB AS	N 61	66.225 -12.951 16.597 1.00 39.20	Н
MOTA	2558 CG AS	N 61	65.952 -13.928 17.683 1.00 39.20	Н
ATOM	2559 OD1 AS	SN 61	66.258 - 15.105 17.535 1.00 39.20	Н
MOTA	2560 ND2 AS	N 61	65.376 -13.461 18.795 1.00 39.20	Н
MOTA	2561 HD21 AS	SN 61	64.636 -13.975 19.174 1.00 0.00	Н
MOTA	2562 HD22 AS	SN 61	65.729 -12.627 19.178 1.00 0.00	Н
ATOM	2563 C ASN	61	67.416 -14.429 15.026 1.00 23.92	Н
MOTA	2564 O ASN	61	66.617 -14.418 14.084 1.00 39.20	Н
ATOM	2565 N GLL		68.253 -15.437 15.254 1.00 30.71	Н
ATOM	2566 H GLL		68.904 -15.368 15.988 1.00 0.00	Н
MOTA	2567 CA GL		68.208 -16.634 14.434 1.00 30.71	Н
MOTA	2568 CB GL	J 62	69.144 -17.708 15.019 1.00 48.54	H
MOTA	2569 CG GL		70.646 -17.326 15.057 1.00 48.54	Н
ATOM	2570 CD GL		71.257 -17.068 13.663 1.00 48.54	Н
MOTA	2571 OE1 GL		71.227 -17.982 12.804 1.00 48.54	H
ATOM	2572 OE2 GL	.U 62	71.781 -15.950 13.429 1.00 48.54	H
MOTA	2573 C GLL		66.756 -17.189 14.265 1.00 30.71	н.
				- •

ATOM	2574	O GLU	62	66.462 -17.872 13.274 1.00 48.54	Н
ATOM	2575		63	65.844 -16.893 15.207 1.00 24.99	H
ATOM	2576		63	10.000 1.00	Η
ATOM		CA LYS	63	64.484 -17.386 15.047 1.00 24.99	Н
MOTA		CB LYS	63	63.689 -17.272 16.355 1.00 44.50	Н
ATOM	2579	CG LYS	63	62.501 -18.258 16.414 1.00 44.50	Н
MOTA	2580	CD LYS	63	61.202 -17.623 16.926 1.00 44.50	H
ATOM	2581	CE LYS	63	60.096 -17.539 15.858 1.00 44.50	Н
ATOM		NZ LYS	63	58.886 -16.749 16.315 1.00 44.50	H
ATOM		HZ1 LYS		58.007 -17.155 15.926 1.00 0.00	H
ATOM		HZ2 LYS		58.980 -15.760 15.995 1.00 0.00	Н
ATOM		HZ3 LYS		58.852 -16.759 17.353 1.00 0.00	Н
ATOM	2586	C LYS	63	63.731 -16.704 13.892 1.00 24.99	Н
ATOM	2587	O LYS	63	62.632 -17.120 13.539 1.00 44.50	Н
ATOM	2588	N PHE	64	64.317 -15.673 13.290 1.00 23.68	Н
ATOM	2589	H PHE	64	65.190 -15.381 13.609 1.00 0.00	Н
ATOM		CA PHE	64	63.676 -14.980 12.158 1.00 23.68	··H
ATOM	2591	CB PHE	64	63.258 -13.565 12.550 1.00 19.87	
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MOTA		CG PHE		62.277 -13.528 13.649 1.00 19.87	Н
ATOM	_	CD1 PHE		62.668 -13.835 14.947 1.00 19.87	н
ATOM	2594	CD2 PHE	64	60.953 -13.251 13.399 1.00 19.87	Н
ATOM	2595	CE1 PHE	64	61.749 -13.871 15.957 1.00 19.87	Н
ATOM	2596	CE2 PHE	64	60.040 -13.284 14.408 1.00 19.87	Н
MOTA	2597	CZ PHE	64	60.432 -13.593 15.680 1.00 19.87	H
ATOM	2598		64	64.615 -14.912 10.933 1.00 23.68	H
ATOM	2599		64	64.271 -14.327 9.909 1.00 19.87	H
ATOM	2600		65		
				65.805 -15.502 11.086 1.00 33.01	H
ATOM	2601		65	66.005 -15.901 11.963 1.00 0.00	H
ATOM		CA LYS	65	66.830 -15.599 10.047 1.00 33.01	Н
MOTA		CB LYS	65	67.676 -16.855 10.306 1.00 36.60	Н
ATOM		CG LYS	65	69.007 -16.654 10.985 1.00 36.60	Н
MOTA	2605	CD LYS	65	70.121 -17.375 10.224 1.00 36.60	Н
MOTA	2606	CE LYS	65	71.428 -16.573 10.247 1.00 36.60	Н
ATOM	2607	NZ LYS	65	71.385 -15.336 9.378 1.00 36.60	Н
ATOM		HZ1 LYS	65	70.828 -15.511 8.524 1.00 0.00	H
ATOM		HZ2 LYS	65	72.360 -15.089 9.127 1.00 0.00	H
ATOM		HZ3 LYS	65	70.973 -14.568 9.945 1.00 0.00	Н
ATOM	2611	C LYS	65		
					Н
MOTA	2612		65	66.713 -15.123 7.690 1.00 36.60	Н
ATOM		N SER	66	65.137 -16.506 8.509 1.00 19.00	Н
ATOM		H SER	66	64.767 -16.941 9.310 1.00 0.00	Н
ATOM		CA SER	66	64.502 -16.744 7.201 1.00 19.00	Н
ATOM		CB SER	66	64.217 -18.233 7.007 1.00 37.01	Н
MOTA	2617	OG SER	66	65.041 -19.020 7.843 1.00 37.01	Н
ATOM	2618	HG SER	66	64.867 -19.947 7.681 1.00 0.00	Н
ATOM	2619	C SER	66	63.214 -16.001 6.948 1.00 19.00	H
ATOM	2620	O SER	66	62.852 -15.700 5.797 1.00 37.01	
ATOM	2621	N LYS	67		Н
ATOM	2622				H
ATOM			67 67		Н
		CA LYS	67	61.238 -15.033 7.933 1.00 31.83	Н
ATOM		CB LYS	67	60.504 -15.086 9.269 1.00 14.35	Н
ATOM		CG LYS	67	59.424 -16.163 9.352 1.00 14.35	Н
ATOM		CD LYS	67	58.705 -16.432 8.039 1.00 14.35	Н
MOTA		CE LYS	67	57.360 -17.100 8.301 1.00 14.35	Н
ATOM		NZ LYS	67	57.283 -18.608 8.004 1.00 14.35	Н
ATOM	2629	HZ1 LYS	67	57.649 -19.164 8.799 1.00 0.00	Н

ATOM	2630	HZ2 LYS	67	57.860 -18.799 7.152 1.00 0.00	Н
ATOM	2631	HZ3 LYS	67	56.295 -18.857 7.810 1.00 0.00	Н
					H
ATOM	2632		67	61.443 -13.587 7.573 1.00 31.83	
ATOM	2633		67	60.625 -12.995 6.872 1.00 14.35	Н
ATOM	2634	N ALA	68	62.565 -13.028 8.009 1.00 16.18	Н
ATOM	2635	H ALA	68	63.262 -13.580 8.443 1.00 0.00	Н
ATOM		CA ALA	68	62.769 -11.622 7.834 1.00 16.18	Н
		CB ALA	68	62.973 -11.006 9.183 1.00 19.24	H
ATOM					
ATOM	2638		68	63.839 -11.168 6.915 1.00 16.18	Н
ATOM		O ALA	68	64.913 -11.730 6.870 1.00 19.24	Н
ATOM	2640	N THR	69	63.540 -10.089 6.217 1.00 33.79	Н
ATOM	2641	H THR	69	62.665 -9.672 6.343 1.00 0.00	Н
ATOM		CA THR	69	64.469 -9.484 5.281 1.00 33.79	Н
ATOM		CB THR	69	64.101 -9.863 3.804 1.00 28.40	Н
					Н
ATOM		OG1 THR			
ATOM		HG1 THR		64.144 -11.491 2.680 1.00 0.00	Н
ATOM		CG2 THR	69	65.031 -9.183 2.827 1.00 28.40	Н
ATOM	2647	C THR	69	64.417 -7.959 5.511 1.00 33.79	Н
ATOM	2648	O THR	69	63.500 -7.253 5.083 1.00 28.40	Н
ATOM	2649		70		Н
ATOM		H LEU	70		H
ATOM		CA LEU	70	65.502 -6.065 6.497 1.00 9.11	H
ATOM		CB LEU	70	66.045 -5.857 7.924 1.00 13.08	Н
ATOM		CG LEU	70	65.532 -6.847 8.945 1.00 13.08	Н
ATOM	2654	CD1 LEU	70	66.172 -6.606 10.311 1.00 13.08	Н
ATOM	2655	CD2 LEU	70	64.008 -6.744 8.953 1.00 13.08	Н
ATOM	2656		70	66.357 -5.236 5.574 1.00 9.11 I	Н
ATOM	2657		70		H
ATOM			71		
	2658				Н
ATOM	2659		71		H
MOTA		CA THR	71	66.566 -3.486 3.942 1.00 20.60	Н
ATOM		CB THR	71	66.192 -3.611 2.512 1.00 41.62	Н
ATOM	2662	OG1 THR	71	64.996 -2.861 2.251 1.00 41.62	Н
ATOM	2663	HG1 THR	71	65.071 -2.373 1.430 1.00 0.00	Н
ATOM		CG2 THR		65.970 -5.071 2.216 1.00 41.62	Н
ATOM	2665		71	66.289 -2.048 4.401 1.00 20.60	н
ATOM	2666		71	65.559 -1.831 5.383 1.00 41.62	Н
MOTA	2667		72		Н
ATOM		H VAL	72		H
ATOM	2669	CA VAL	72	66.622 0.333 4.050 1.00 22.79	Н
ATOM	2670	CB VAL	72	67.626 0.901 5.090 1.00 34.42	Н
ATOM	2671	CG1 VAL	72	67.622 0.055 6.336 1.00 34.42	Н
ATOM		CG2 VAL	72	69.027 0.965 4.495 1.00 34.42	Н
ATOM	2673		72		н
ATOM	2674				
			72		Н
ATOM	2675		73		Н
ATOM	2676		73		H
MOTA		CA ASP	73	66.698 3.301 1.649 1.00 31.86	Н
MOTA	2678	CB ASP	73	65.343 3.449 0.963 1.00 37.33	Н
ATOM		CG ASP	73	65.286 4.642 -0.011 1.00 37.33	Н
ATOM		OD1 ASP		65.941 5.703 0.197 1.00 37.33	H
ATOM		OD2 ASP		64.552 4.508 -1.010 1.00 37.33	
ATOM	2682				Η
			73		H
MOTA	2683		73		Н
ATOM	2684		74		H
MOTA	2685	H LYS	74	69.048 4.118 2.061 1.00 0.00 F	4

ATOM	268	6 CA LY	/S 74	68.983 6.053 2.939 1.00 20.80 H	
ATOM					
		7 CB LY		70.481 6.101 2.706 1.00 33.70 H	
ATOM	-	B CG LY		1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-
ATOM		B CD FA		72.115 4.711 3.972 1.00 33.70 F	1
ATOM	2690	CE LY	'S 74	73.492 4.943 3.310 1.00 33.70 H	i
ATOM	269	NZ LY	'S 74	73.457 4.830 1.795 1.00 33.70 H	
ATOM		HZ1 L			
ATOM		HZ2LY			
				1,100 0,00	
ATOM		HZ3 LY		12122 11210 1120 0100 11	
ATOM		C LYS		68.369 7.360 2.452 1.00 20.80 H	
ATOM	2696	O LY	S 74	68.146 8.314 3.214 1.00 33.70 H	
ATOM	2697	N SEI	R 75	68.099 7.390 1.161 1.00 34.95 H	
ATOM				68.251 6.603 0.601 1.00 0.00 H	
ATOM		CA SE			
ATOM		CB SE			
ATOM		OG SE			1
ATOM		HG SE	R 75	66.159 7.270 -2.055 1.00 0.00 H	í
ATOM	2703	C SEF	R 75	66.259 8.955 1.227 1.00 34.95 H	
ATOM	2704			65.991 10.133 1.432 1.00 31.14 H	
ATOM					l
ATOM	_		-		
ATOM				65.754 7.031 1.489 1.00 0.00 H	
		CA AL		64.162 8.248 2.202 1.00 26.42 H	
ATOM		CB AL		63.046 7.569 1.410 1.00 10.78 H	
ATOM				64.006 7.930 3.660 1.00 26.42 H	
ATOM	2710		A 76	62.892 7.930 4.167 1.00 10.78 H	
ATOM	2711	N SEF	R 77	65.122 7.656 4.329 1.00 37.60 H	
ATOM	2712	H SEF	R 77	65.975 7.656 3.857 1.00 0.00 H	
ATOM		CA SE		65.101 7.350 5.753 1.00 37.60 H	
ATOM		CB SE		• • • • • • • • • • • • • • • • • • •	
ATOM		OG SE			
				65.094 9.685 5.618 1.00 25.99 H	
ATOM		HG SE		64.666 10.475 5.947 1.00 0.00 H	1
ATOM	2717			63.924 6.479 6.008 1.00 37.60 H	
ATOM	2718			63.008 6.878 6.695 1.00 25.99 H	
MOTA	2719	N THE	₹ 78	63.947 5.295 5.430 1.00 23.35 H	
ATOM	2720	H THE	₹ 78	64.722 5.028 4.897 1.00 0.00 H	
ATOM		CA TH		22.22	
ATOM		CB TH		1,	
ATOM		OG1 TH			
ATOM				20 100	
		HG1 TH		60.468 5.614 4.842 1.00 0.00 H	
ATOM		CG2 TH		60.939 3.250 4.423 1.00 20.24 H	ł
ATOM	2726		78	63.388 3.013 5.754 1.00 23.35 H	
ATOM	2727	O THR	78	64.062 2.527 4.881 1.00 20.24 H	
ATOM	2728	N ALA	79	63.140 2.400 6.893 1.00 13.63 H	
MOTA	2729			00.000	
ATOM		CA ALA		20.000	
ATOM		CB ALA		CO 700 0 701	
ATOM				63.793 0.784 8.597 1.00 10.19 H	
	2732			62.529 0.185 6.491 1.00 13.63 H	
ATOM	2733			61.367 0.580 6.486 1.00 10.19 H	
ATOM	2734			62.907 -0.969 5.931 1.00 26.68 H	
ATOM	2735			63.859 -1.206 5.924 1.00 0.00 H	
ATOM		CA TYP	80	61.945 -1.901 5.339 1.00 26.68 H	
ATOM		CB TYP		60 404 4 646 6 656	
MOTA		CG TYF		64 600 0 704	
ATOM		CD1 TY		60 000 0 000	
ATOM		CE1 TY			
ATOM		CD2 TY		59.797 0.524 2.122 1.00 30.18 H	
	2141	CDZ IYI	R 80	62.484 0.359 2.838 1.00 30.18 H	

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ATOM	2742	CE2 TYR	80	62.000 1.519 2.196 1.00 30.18	Н
ATOM		CZ TYR	80	60.650 1.587 1.846 1.00 30.18	H
ATOM		OH TYR		60.109 2.698 1.247 1.00 30.18	H
ATOM		HH TYR	80	59,230 2.502 0.912 1.00 0.00	H
			80	62.159 -3.293 5.917 1.00 26.68	H
ATOM ATOM	2746 2747		80	63.286 -3.639 6.254 1.00 30.18	H
ATOM	2748		81	61.077 -4.059 6.077 1.00 12.52	H
ATOM	2749		81	60,204 -3.684 5.880 1.00 0.00	Н
ATOM		CA MET		61.136 -5.457 6.563 1.00 12.52	Н
ATOM	2750			60.655 -5.611 8.011 1.00 16.76	Н
ATOM		CG MET		60.040 -7.015 8.326 1.00 16.76	Н
ATOM	2753			60,424 -7.754 9.983 1.00 16.76	H
ATOM	2754	CE MET		59.293 -7.044 11.039 1.00 16.76	H
ATOM	2755		81	60.274 -6.311 5.648 1.00 12.52	H
ATOM	2756		81	59.207 -5.907 5.211 1.00 16.76	H
ATOM	2757		82	60.776 -7.491 5.308 1.00 11.68	H
ATOM	2758		82	61.661 -7.752 5.648 1.00 0.00	H
ATOM		CA GLU	82	60.033 -8.412 4.449 1.00 11.68	Ή.
ATOM	2760		82	60.717 -8.629 3.118 1.00 32.69	H
ATOM	2761		82	59.821 -9.351 2.139 1.00 32.69	Н
ATOM		CD GLU	82	59.886 -8.758 0.730 1.00 32.69	H
ATOM		OE1 GLU		59.528 -7.582 0.549 1.00 32.69	H
ATOM		OE2 GLU		60.293 -9.470 -0.204 1.00 32.69	H
ATOM	2765	C GLU	82	59.907 -9.742 5.163 1.00 11.68	н
ATOM	2766	O GLU	82	60.874 -10.301 5.710 1.00 32.69	H
ATOM	2767		83	58.686 -10.235 5.178 1.00 18.26	H
ATOM	2768		83	57.952 -9.757 4.749 1.00 0.00	н
ATOM		CA LEU	83	58.427 -11.491 5.829 1.00 18.26	Ή.
ATOM		CB LEU	83	57.348 -11.328 6.913 1.00 20.56	H
ATOM	2771	CG LEU	83	57.676 -10.412 8.120 1.00 20.56	Н
ATOM		CD1 LEU		56.370 -9.963 8.763 1.00 20.56	H
ATOM		CD2 LEU		58.555 -11.122 9.162 1.00 20.56	H
ATOM	2774		83	57.999 -12.459 4.755 1.00 18.26	н
ATOM	2775	O LEU	83	57.106 -12.144 3.946 1.00 20.56	H
ATOM		N SER	84	58.670 -13.621 4.769 1.00 23.03	H
ATOM	2777	H SER	84	59.348 -13.754 5.467 1.00 0.00	Н
ATOM		CA SER	84	58.473 -14.714 3.802 1.00 23.03	Н
ATOM	2779	CB SER	. 84	59.792 -15.416 3.493 1.00 27.66	H
MOTA	2780	OG SER	84	59.836 -16.654 4.196 1.00 27.66	Н
MOTA	2781	HG SER	84	60.649 -16.715 4.712 1.00 0.00	Н
MOTA	2782	C SER	84	57.528 -15.821 4.199 1.00 23.03	Н
ATOM	2783	O SER	84	57.553 -16.291 5.339 1.00 27.66	Н
ATOM	2784	N SER	85	56.752 -16.267 3.217 1.00 22.77	Н
ATOM	2785	H SER	85	56.807 -15.852 2.337 1.00 0.00	Н
MOTA	2786	CA SER	85	55.815 -17.362 3.409 1.00 22.77	Н
MOTA	2787	CB SER	85	56.593 -18.661 3.220 1.00 30.44	Н
MOTA	2788	OG SER	85	57.946 -18.332 2.972 1.00 30.44	Н
ATOM	2789	HG SER	85	58.460 -18.604 3.737 1.00 0.00	Н
MOTA	2790	C SER	85	55.124 -17.334 4.789 1.00 22.77	Н
ATOM	2791	O SER	85	55.330 -18.228 5.632 1.00 30.44	Н
ATOM	2792		86	54.268 -16.346 5.020 1.00 28.52	Н
MOTA	2793		86	54.039 -15.686 4.334 1.00 0.00	Н
ATOM		CA LEU	86	53.693 -16.291 6.354 1.00 28.52	Н
ATOM		CB LEU	86	53.093 -14.909 6.758 1.00 2.53	Н
ATOM		CG LEU	86	53.393 -13.604 6.030 1.00 2.53	Н
ATOM	2797	CD1 LEU	86	52.218 -12.668 6.206 1.00 2.53	Н

ATON	1 279	8 C	D2 LE	J 86	54.668 -13.014 6.545 1.00 2.53	Н
ATON			LEU	86	52.668 -17.323 6.579 1.00 28.52	H
ATON			LEU	86	52.055 -17.861 5.685 1.00 2.53	H
ATON			ARG		52.530 -17.597 7.844 1.00 24.02	H
ATON		2 H	ARG		53.075 -17.184 8.524 1.00 0.00	Н
ATON			A ARG		51.572 -18.515 8.315 1.00 24.02	П
ATON			3 ARG		52.245 -19.797 8.813 1.00 46.13	Н
ATON			G ARC		53.644 -19.643 9.384 1.00 46.13	Н
ATOM			O ARG		54.177 -21.010 9.841 1.00 46.13	
ATOM					54.894 -20.944 11.124 1.00 46.13	Н
ATOM					55.053 -20.055 11.502 1.00 0.00	Н
ATOM			ZARG		55.328 -22.006 11.799 1.00 46.13	H
ATOM			11 AR			H
ATOM			11 AR			
ATOM			12 AR			
ATOM			12 AR			
ATOM			21 AR			
ATOM			22 AR			}
ATOM			ARG	87 87	50.938 -17.766 9.476 1.00 24.02	
ATOM			ARG	87		H
ATOM			SER	88		H
ATOM			SER	88	49.827 -18.319 9.911 1.00 33.56 49.510 -19.124 9.442 1.00 0.00	H
ATOM			SER		49.058 -17.833 11.029 1.00 33.56	н
ATOM			SER		48.360 -19.034 11.592 1.00 33.30	H
ATOM			SER		49.344 -20.072 11.597 1.00 33.30	H
ATOM			SER		49.579 -20.298 12.497 1.00 0.00	H
ATOM	2824		SER	88	50.055 -17.342 12.062 1.00 33.56	Н
ATOM	2825		SER	88	49.979 -16.226 12.523 1.00 33.30	H
ATOM	2826		GLU	89	50.971 -18.231 12.423 1.00 16.37	Н
ATOM	2827		GLU	89	50.954 -19.120 12.013 1.00 0.00	Н
ATOM			GLU	89	51.995 -17.967 13.407 1.00 16.37	Ή
MOTA			GLU	89	53.040 -19.093 13.346 1.00 32.47	H
MOTA			GLU	89	52.755 -20.229 14.332 1.00 32.47	H
MOTA	2831	CD	GLU	89	52.279 -21.545 13.679 1.00 32.47	H
ATOM	2832	OE	1 GLU	89	51.987 -22.521 14.458 1.00 32.47	Ή
MOTA	2833	OE	2 GLU	89	52.211 -21.589 12.407 1.00 32.47	Н
ATOM	2834	С	GLU	89	52.670 -16.585 13.290 1.00 16.37	Н
ATOM	2835	0	GLU	89	53.227 -16.060 14.259 1.00 32.47	H
ATOM	2836	Ν	ASP	90	52.632 -16.012 12.096 1.00 20.95	H
ATOM	2837	Н	ASP	90	52.198 -16.512 11.389 1.00 0.00	H
MOTA	2838		ASP	90	53.220 -14.702 11.831 1.00 20.95	H
MOTA	2839			90	53.614 -14.631 10.369 1.00 25.91	н
ATOM			ASP	90	54.457 -15.805 9.960 1.00 25.91	Н
MOTA			1 ASP	90	55.205 -16.316 10.820 1.00 25.91	Н
ATOM			2 ASP	90	54.380 -16.233 8.797 1.00 25.91	Н
MOTA	2843		ASP	90	52.269 -13.541 12.165 1.00 20.95	Н
MOTA	2844		ASP	90	52.688 -12.379 12.231 1.00 25.91	Н
MOTA	2845		THR	91	50.990 -13.843 12.371 1.00 18.76	Н
MOTA	2846		THR	91	50.695 -14.762 12.298 1.00 0.00	H
MOTA	2847		THR	91	50.083 -12.787 12.676 1.00 18.76	Н
MOTA			THR	91	48.695 -13.265 12.890 1.00 9.07	Н
MOTA			1 THR	91	48.251 -13.965 11.734 1.00 9.07	Н
MOTA			THR	91	48.969 -14.082 11.112 1.00 0.00	Н
MOTA			THR	91	47.814 -12.098 13.083 1.00 9.07	Н
MOTA	2852		THR	91	50.556 -12.070 13.907 1.00 18.76	Н
MOTA	2853	U	THR	91	50.967 -12.674 14.888 1.00 9.07	Н

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ATOM	2854	N ALA	92	50.526 -10.755 13.840 1.00 12.22	Н
ATOM	2855		92	50.196 -10.315 13.027 1.00 0.00	H
ATOM		CA ALA	92	50.984 -9.980 14.961 1.00 12.22	Н.
ATOM		CB ALA	92	52.314 -10.461 15.415 1.00 24.90	H
ATOM	2858		92	51.075 -8.542 14.598 1.00 12.22	н
ATOM	2859		92	50.527 -8.108 13.591 1.00 24.90	H
ATOM	2860		93	51.705 -7.784 15.482 1.00 10.97	H
ATOM	2861	H VAL	93	52.023 -8.177 16.317 1.00 0.00	H
ATOM		CA VAL	93	51.910 -6.380 15.238 1.00 10.97	H
ATOM		CB VAL	93	51.457 -5.537 16.414 1.00 18.91	н
ATOM		CG1 VAL		52.211 -4.191 16.441 1.00 18.91	H
ATOM		CG2 VAL		49.979 -5.282 16.290 1.00 18.91	H
ATOM	2866		93	53.408 -6.391 15.083 1.00 10.97	Н
ATOM	2867		93	54.118 -7.127 15.752 1.00 18.91	Н
ATOM	2868		94	53.892 -5.623 14.136 1.00 14.06	Н
ATOM	2869		94	53.294 -5.062 13.594 1.00 0.00	Н
ATOM		CA TYR	94	55.302 -5.571 13.898 1.00 14.06	Н
ATOM	2871		94	55.585 -6.084 12.487 1.00 20.99	H
ATOM	2872		94	55.487 -7.608 12.438 1.00 20.99	Н
ATOM		CD1 TYR	94	54.286 -8.262 12.140 1.00 20.99	H
MOTA	2874	CE1 TYR	94	54.184 -9.651 12.217 1.00 20.99	H
MOTA	2875	CD2 TYR	94	56.574 -8.386 12.802 1.00 20.99	H
ATOM	2876	CE2 TYR	94	56.480 -9.764 12.882 1.00 20.99	H
ATOM	2877	CZ TYR	94	55.292 -10.402 12.592 1.00 20.99	Н
ATOM	2878	OH TYR	94	55.265 -11.785 12.685 1.00 20.99	Н
ATOM	2879	HH TYR	94	55.850 -12.176 12.043 1.00 0.00	Н
MOTA	2880	C TYR	94	55.707 -4.135 14.122 1.00 14.06	Н
MOTA	2881	O TYR	94	55.178 -3.211 13.536 1.00 20.99	Н
MOTA	2882	N TYR	95	56.621 -3.982 15.056 1.00 11.79	Н
MOTA	2883	H TYR	95	56.926 -4.802 15.472 1.00 0.00	H
ATOM	2884	CA TYR	95	57.162 -2.705 15.470 1.00 11.79	Н
ATOM	2885		95	57.288 -2.692 16.981 1.00 18.08	Н
MOTA	2886		95	56.030 -2.464 17.686 1.00 18.08	Н
ATOM		CD1 TYR	95	55.333 -1.290 17.481 1.00 18.08	Н
MOTA		CE1 TYR	95	54.190 -1.032 18.186 1.00 18.08	Н
ATOM		CD2 TYR	95	55.547 -3.395 18.615 1.00 18.08	Н
ATOM		CE2 TYR	95	54.394 -3.149 19.331 1.00 18.08	Н
ATOM	2891	CZ TYR	95	53.713 -1.949 19.112 1.00 18.08	Н
ATOM	2892		95	52.563 -1.618 19.803 1.00 18.08	Н
MOTA		HH TYR	95	51.831 -2.148 19.495 1.00 0.00	Н
ATOM		C TYR	95	58.555 -2.456 14.969 1.00 11.79	Н
MOTA	2895		95	59.415 -3.321 15.094 1.00 18.08	Н
MOTA	2896		96	58.786 -1.254 14.472 1.00 23.66	Н
MOTA	2897		96	58.039 -0.624 14.380 1.00 0.00	Н
ATOM		CA CYS	96	60.131 -0.829 14.057 1.00 23.66	Н
ATOM	2899		96	60.544 0.211 15.119 1.00 23.66	Н
MOTA	2900		96	59.856 1.206 15.311 1.00 36.68	Н
ATOM ATOM		CB CYS	96 06	60.112 -0.167 12.691 1.00 36.68	Н
	2902		96 07	59.593 1.562 12.799 1.00 36.68	Η
ATOM ATOM	2903		97 97	61.640 -0.040 15.829 1.00 9.01	H
ATOM		CA THR	97 97	62.145 -0.860 15.642 1.00 0.00	H.
ATOM		CB THR	97 97	62.087 0.857 16.878 1.00 9.01	H
ATOM		OG1 THR	97 97	61.841 0.241 18.325 1.00 21.11	Н
ATOM		HG1 THR	97 97	62.394 1.093 19.332 1.00 21.11	Н
ATOM		CG2 THR		62.204 0.710 20.182 1.00 0.00	H
	2303	JGZ INK	97	62.511 -1.131 18.454 1.00 21.11	Н

ATOM	1 2910	0.0	THR	97	63,562	1 190	16 748	1.00 9.01	Н
ATON			THR		64.396		16.486		H
ATOM		_	ARG		63.842		16.989		
ATOM	1 2913	3 H			63.101			1.00 0.00	H
ATON	1 2914	1 CA	ARC		65.15				
ATOM	1 2915	CE	3 ARC	3 98	65.00°				
ATON			3 ARG		66.20	7 5.215	5 16.25		
ATON) AR		66.86			4 1.00 29.85	
ATOM			ARC		66.923				5 H
ATOM			ARC		66.80				
ATOM			ARC		67.138		17.62		
ATOM			11 AR		67.33			6 1.00 29.8	
ATOM			11 AR			23 7.54			
ATOM ATOM			12 AR					79 1.00 0.0	
ATOM			12 AR 21 AR		67.15			3 1.00 29.8	
ATOM			21 AR 22 AR					06 1.00 0.0	
ATOM			ARG	.G 98 98	66.242			82 1.00 0.0	
ATOM			ARG	98	66.013		19.159	1.00 17.97	Н
ATOM			SER	99	67.449		17.385	1.00 29.85 1.00 28.85	Н
ATOM			SER	99	67.501			1.00 26.65	H
ATOM			SER		68.687			1.00 0.00	H
ATOM	2932		SER		69.265	3.787	18.545	1.00 27.25	Н
ATOM	2933	OG	SER	8 99	70.311			5 1.00 27.25	
ATOM	2934	HG	SER	99	71.108			1.00 0.00	н
ATOM			SER	99	68.660			1.00 28.85	Н
ATOM	2936		SER	99	68.366	0.337	19.059	1.00 27.25	Н
ATOM	2937		ASP	100	68.974		20.414	1.00 23.44	Н
MOTA			ASP	100	69.152			1.00 0.00	Н
ATOM ATOM	2939			100	69.063		21.650		Н
ATOM	2940 2941		ASP	100 100	70.301	1.802	22.506	1.00 38.25	Н
ATOM	2942				71.353		21.713		
ATOM	2943		2 ASP	-	72.40! 71.15!		21.20 3 21.66		
ATOM	2944		ASP	100	67.738			8	
ATOM	2945		ASP	100	67.789	1.025		1.00 23.44	Н
ATOM			GLY	101	66.596		21.825	1.00 36.23	H H
MOTA	2947		GLY	101	66.690	1.167		1.00 0.00	H
ATOM			GLY	101	65.220		22.341	1.00 14.73	H
MOTA	2949		GLY	101	64.482	2.225	22.732	1.00 14.73	н
ATOM	2950		GLY	101	63.806	2.227	23.735	1.00 18.73	Н
MOTA	2951		ASP	102		3.305	21.948	1.00 14.10	Н
MOTA MOTA	2952		ASP	102	64.983	3.271	21.069	1.00 0.00	Н
ATOM	2953	CA	ASP	102	63.936		22.430	1.00 14.10	Н
ATOM	2954 2955	CG	ASP	102	65.021	5.488	22.936	1.00 55.36	Н
ATOM	2956	001	MOP	102 102	65.843	6.126	21.799	1.00 55.36	Н
ATOM	2957	OD	ASP	102	65.595	5.837	20.599	1.00 55.36	Н
MOTA				102	62 080	6.925 5.335 1	22.128	3 1.00 55.36 1.00 14.10	
MOTA				102	62.764	6.526 2	21.300		Н
MOTA				103	62.440			1.00 55.36 1.00 13.82	H
MOTA	2961	H S	SER			3.782 2		1.00 13.82	H H
MOTA	2962	CA	SER	103	61.450			1.00 13.82	Н
MOTA	2963	CB	SER	103	62.068	6.309	18.719	1.00 30.84	H
MOTA	2964	OG	SER	103	63.261	6.825	19.265	1.00 30.84	н
MOTA	2965	HG	SER	103	63.796	7.196	18.563	1.00 0.00	н

ATOM	2966 C SER 103	60.876 4.147 18.972 1.00 13.82	Н
ATOM	2967 O SER 103	61.604 3.213 18.594 1.00 30.84	H
ATOM	2968 N TRP 104	59.572 4.151 18.785 1.00 22.20	H
ATOM	2969 H TRP 104	59.023 4.901 19.114 1.00 0.00	н
ATOM	2970 CA TRP 104	58.965 3.032 18.110 1.00 22.20	Н
ATOM	2971 CB TRP 104	58.235 2.164 19.154 1.00 6.36	н
ATOM	2972 CG TRP 104	59.146 1.509 20.186 1.00 6.36	H
ATOM	2973 CD2 TRP 104	59.253 0.108 20.457 1.00 6.36	H
ATOM	2974 CE2 TRP 104	60.080 -0.043 21.593 1.00 6.36	H
ATOM	2975 CE3 TRP 104	58.717 -1.034 19.851 1.00 6.36	H
ATOM	2976 CD1 TRP 104	59.913 2.139 21.141 1.00 6.36	H
ATOM	2977 NE1 TRP 104	60.479 1.202 21.996 1.00 6.36	H
ATOM	2978 HE1 TRP 104	61.070 1.421 22.746 1.00 0.00	H
ATOM	2979 CZ2 TRP 104	60.371 -1.267 22.125 1.00 6.36	Н
ATOM	2980 CZ3 TRP 104	59.002 -2.257 20.377 1.00 6.36	Н
ATOM	2981 CH2 TRP 104	59.826 -2.370 21.510 1.00 6.36	Н
ATOM		58.025 3.542 17.038 1.00 22.20	Н
MOTA	2983 O TRP 104	58.058 4.709 16.692 1.00 6.36	H
ATOM	2984 N GLY 105	57.224 2.645 16.483 1.00 32.47	Н
MOTA	2985 H GLY 105	57.299 1.707 16.762 1.00 0.00	Н
MOTA	2986 CA GLY 105	56.250 3.027 15.473 1.00 32.47	Н
MOTA	2987 C GLY 105	54.933 2.614 16.075 1.00 32.47	Н
ATOM	2988 O GLY 105	54.963 1.954 17.099 1.00 21.23	Н
ATOM	2989 N GLN 106	53.798 3.015 15.502 1.00 21.54	Н
ATOM	2990 H GLN 106	53.837 3.597 14.716 1.00 0.00	Н
ATOM	2991 CA GLN 106	52.488 2.601 16.047 1.00 21.54	Н
ATOM	2992 CB GLN 106	51.280 3.143 15.258 1.00 35.25	H
ATOM	2993 CG GLN 106	50.076 2.103 15.215 1.00 35.25	Н
MOTA	2994 CD GLN 106	48.914 2.319 16.292 1.00 35.25	Н
ATOM	2995 OE1 GLN 106	49.163 2.434 17.511 1.00 35.25	Н
ATOM	2996 NE2 GLN 106	47.659 2.361 15.812 1.00 35.25	H
MOTA	2997 HE21 GLN 106	46.905 2.152 16.385 1.00 0.00	Н
MOTA	2998 HE22 GLN 106	47.570 2.621 14.860 1.00 0.00	Н
MOTA MOTA	2999 C GLN 106	52.416 1.110 15.949 1.00 21.54	Н
ATOM	3000 O GLN 106 3001 N GLY 107	51.741 0.473 16.733 1.00 35.25	Н
ATOM	3001 N GLY 107 3002 H GLY 107	53.122 0.582 14.957 1.00 23.48	Н
ATOM	3002 FF GET 107	53.627 1.175 14.362 1.00 0.00 53.163 -0.837 14.734 1.00 23.48	Н
ATOM	3004 C GLY 107	52.252 -1.142 13.567 1.00 23.48	. Н
ATOM	3005 O GLY 107	51.378 -0.328 13.240 1.00 17.76	H
ATOM	3006 N THR 108	52.469 -2.295 12.935 1.00 22.92	H
ATOM	3007 H THR 108		H
ATOM	3008 CA THR 108	51.656 -2.728 11.814 1.00 22.92	Ή
ATOM	3009 CB THR 108	52.497 -2.850 10.536 1.00 3.61	H
ATOM	3010 OG1 THR 108	53.171 -1.606 10.275 1.00 3.61	
ATOM	3011 HG1 THR 108	53.508 -1.267 11.100 1.00 0.00	Н
ATOM	3012 CG2 THR 108	51.604 -3.188 9.367 1.00 3.61	H
ATOM	3013 C THR 108	51.072 -4.100 12.171 1.00 22.92	Н
ATOM	3014 O THR 108	51.791 -4.992 12.621 1.00 3.61	H
ATOM	3015 N LEU 109	49.756 -4.248 12.009 1.00 14.21	Н
ATOM	3016 H LEU 109	49.214 -3.500 11.671 1.00 0.00	Н
ATOM	3017 CA LEU 109	49.106 -5.503 12.340 1.00 14.21	Н
ATOM	3018 CB LEU 109	47.660 -5.293 12.802 1.00 14.37	Н
ATOM	3019 CG LEU 109	46.950 -6.253 13.797 1.00 14.37	Н
ATOM	3020 CD1 LEU 109	45.475 -6.043 13.658 1.00 14.37	Н
ATOM	3021 CD2 LEU 109	47.292 -7.761 13.599 1.00 14.37	Н

ATON	3022 C LEU	109	49.092 -6.266 11.068 1.00 14.21	
ATOM				Н
			10.07-	Н
ATOM		110	49.676 -7.455 11.082 1.00 4.70	Н
ATOM		110	50.084 -7.784 11.900 1.00 0.00	Н
ATOM	3026 CA VAL	. 110	49.731 -8.313 9.906 1.00 4.70	Н
ATOM	3027 CB VAL	. 110	51.176 -8.756 9.543 1.00 8.03	Н
ATOM	3028 CG1 VA	L 110		Н
ATOM				
ATOM		110	48.962 -9.570 10.239 1.00 4.70	Н
ATOM			40.424 40.400 40.057 4.00 0.00	Н
		110	49.431 -10.436 10.957 1.00 8.03	Н
ATOM		111	47.770 -9.651 9.715 1.00 11.47	Н
ATOM				Н
ATOM			46.952 -10.797 9.994 1.00 11.47	Н
ATOM	3035 CB THE	111	45.453 -10.326 10.410 1.00 2.85	Н
ATOM	3036 OG1 TH	R 111		ŀ
ATOM	3037 HG1 TH			H
ATOM	3038 CG2 TH			
ATOM	3039 C THR	111		H
ATOM	3040 O THR	111		Н
ATOM			46.968 -11.290 7.600 1.00 2.85	Н
	3041 N VAL	112	47.421 -12.975 9.012 1.00 21.25	Н
ATOM	3042 H VAL	112		Н
ATOM	3043 CA VAL		47.603 -13.895 7.924 1.00 21.25	Н
ATOM	3044 CB VAL		48.745 -14.936 8.181 1.00 12.51	Н
ATOM	3045 CG1 VAL		48.621 -16.079 7.189 1.00 12.51	Н
ATOM	3046 CG2 VAL	. 112	50.127 -14.290 8.063 1.00 12.51	H
ATOM	3047 C VAL	112	46.350 -14.691 7.739 1.00 21.25	н
ATOM	3048 O VAL	112	46.060 -15.544 8.577 1.00 12.51	H
ATOM	3049 N SER	113	45.611 -14.429 6.660 1.00 14.60	
ATOM	3050 H SER	113		Н
ATOM	3051 CA SER			Η
ATOM	3052 CB SER		44.444 -15.231 6.417 1.00 14.60	Н
			43.207 -14.700 7.158 1.00 13.04	Н
ATOM	3053 OG SER		42.049 -15.450 6.771 1.00 13.04	Н
ATOM	3054 HG SER		41.318 -15.293 7.372 1.00 0.00	Н
ATOM	3055 C SER	113	44.069 -15.449 4.974 1.00 14.60	Н
ATOM	3056 O SER	113	44.359 -14.642 4.096 1.00 13.04	Н
ATOM	3057 N SER	114	43.333 -16.541 4.785 1.00 31.67	Н
ATOM	3058 H SER	114		Н
MOTA	3059 CA SER	114	42.828 -16.971 3.479 1.00 31.67	H
ATOM	3060 CB SER	114	42.603 -18.457 3.506 1.00 35.90	Н
MOTA	3061 OG SER		42.553 -18.878 4.861 1.00 35.90	
ATOM	3062 HG SER	114		Н
ATOM	3063 C SER	114		Н
ATOM	3064 O SER	114		Н
ATOM			40.841 -16.389 2.291 1.00 35.90	Н
ATOM		115		Н
		115		1
ATOM	3067 CA ALA	115	39.757 -15.377 4.561 1.00 24.28	Н
ATOM	3068 CB ALA	115	39.341 -15.058 5.942 1.00 24.04	Н
ATOM		115	00 004 44 455	H
MOTA		115	40,004,40,000	H
MOTA	3071 N SER	116	20.000 40.004	Н
MOTA	3072 H SER	116	07.040 40.000	Н
MOTA	3073 CA SER	116	38.633 -12.327 2.636 1.00 31.88	
MOTA	3074 CB SER	116		Н
ATOM	3075 OG SER	116		H
ATOM	3076 HG SER	116		H
MOTA		116	20.050 40.000	Н
	JULY OF OF	1 10	38.356 -10.978 3.275 1.00 31.88	H

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ATOM	3078 O SER 116	37.524 -10.815 4.174 1.00 30.48	Н
			н
ATOM	3079 N THR 117	39.073 -9.995 2.767 1.00 16.25	
MOTA	3080 H THR 117	39.734 -10.202 2.078 1.00 0.00	H
ATOM	3081 CA THR 117	38.907 -8.634 3.229 1.00 16.25	Н
MOTA	3082 CB THR 117	39.753 -7.674 2.416 1.00 28.17	Н
ATOM	3083 OG1 THR 117	41.080 -8.175 2.342 1,00 28.17	Н
ATOM	3084 HG1 THR 117	41.163 -8.785 1.598 1.00 0.00	H
			н
MOTA	3085 CG2 THR 117		
ATOM	3086 C THR 117	37.484 -8.181 3.052 1.00 16.25	Н
MOTA	3087 O THR 117	36.890 -8.394 2.009 1.00 28.17	Н
MOTA	3088 N LYS 118	36.916 -7.581 4.076 1.00 8.63	Н
MOTA	3089 H LYS 118	37.389 -7.515 4.933 1.00 0.00	Н
ATOM	3090 CA LYS 118	35.584 -7.019 3.956 1.00 8.63	Н
ATOM	3091 CB LYS 118	34.478 -7.891 4.485 1.00 14.87	H
MOTA	3092 CG LYS 118	33.183 -7.415 3.876 1.00 14.87	Н
ATOM	3093 CD LYS 118	31.967 -7.744 4.748 1.00 14.87	Н
ATOM	3094 CE LYS 118	30.687 -7.890 3.902 1.00 14.87	Н
MOTA	3095 NZ LYS 118	30.292 -6.580 3.322 1.00 14.87	Н
ATOM	3096 HZ1 LYS 118	30.730 -5.791 3.822 1.00 0.00	Н
ATOM	3097 HZ2 LYS 118	29.253 -6.519 3.385 1.00 0.00	Н
ATOM	3098 HZ3 LYS 118	30.544 -6.570 2.305 1.00 0.00	Н
MOTA	3099 C LYS 118	35.571 -5.765 4.735 1.00 8.63	H
ATOM	3100 O LYS 118	36.179 -5.674 5.789 1.00 14.87	Н
ATOM	3101 N GLY 119	34.875 -4.778 4.197 1.00 27.41	Н
MOTA	3102 H GLY 119	34.404 -4.926 3.344 1.00 0.00	Н
ATOM	3103 CA GLY 119	34.780 -3.500 4.854 1.00 27.41	Н
ATOM	3104 C GLY 119	33.528 -3.515 5.695 1.00 27.41	Н
ATOM	3105 O GLY 119	32.535 -4.190 5.366 1.00 26.85	
			Н
ATOM	3106 N PRO 120	33.547 -2.764 6.798 1.00 9.14	Н
ATOM	3107 CD PRO 120	34.671 -1.912 7.227 1.00 24.91	Н
MOTA	3108 CA PRO 120	32.431 -2.651 7.739 1.00 9.14	Н
ATOM	3109 CB PRO 120	33.086 -2.059 8.935 1.00 24.91	Н
MOTA	3110 CG PRO 120	34.059 -1.080 8.275 1.00 24.91	н
ATOM	3111 C PRO 120	31.367 -1.687 7.258 1.00 9.14	Н
ATOM	3112 O PRO 120	31.668 -0.782 6.514 1.00 24.91	H
ATOM	3113 N SER 121	30.127 -1.892 7.660 1.00 8.70	H
ATOM	3114 H SER 121		
		29.907 -2.701 8.166 1.00 0.00	Η
MOTA	3115 CA SER 121	29.096 -0.927 7.351 1.00 8.70	Н
ATOM	3116 CB SER 121	27.719 -1.537 7.385 1.00 34.04	Н
ATOM	3117 OG SER 121	27.730 -2.790 6.750 1.00 34.04	. Н
ATOM	3118 HG SER 121	26.993 -2.833 6.134 1.00 0.00	Н
ATOM	3119 C SER 121	29.256 -0.068 8.587 1.00 8.70	Н
MOTA		29.732 -0.560 9.598 1.00 34.04	Н
ATOM	3121 N VAL 122	28.909 1.211 8.522 1.00 16.26	H
ATOM	3122 H VAL 122	28.562 1.590 7.683 1.00 0.00	
			Н
MOTA	3123 CA VAL 122	29.039 2.044 9.708 1.00 16.26	Н
ATOM	3124 CB VAL 122	30.085 3.166 9.500 1.00 8.99	Н
ATOM	3125 CG1 VAL 122	30.389 3.864 10.791 1.00 8.99	Н
ATOM	3126 CG2 VAL 122	31.331 2.600 9.004 1.00 8.99	Н
MOTA	3127 C VAL 122	27.695 2.651 10.124 1.00 16.26	Н
ATOM	3128 O VAL 122	27.116 3.382 9.364 1.00 8.99	Н
MOTA	3129 N PHE 123	27.189 2.370 11.319 1.00 25.63	Н
ATOM	3130 H PHE 123	27.638 1.797 11.954 1.00 0.00	н
ATOM	3131 CA PHE 123		
ATOM			Н
	3132 CB PHE 123	24.942 1.883 12.055 1.00 20.28	Н
ATOM	3133 CG PHE 123	24.696 0.938 10.943 1.00 20.28	Н

ATOM	I 3134 CD1 PHE 123	24.007 4.079 0.705 4.00.00 0
ATOM		
ATOM		
ATOM		24.926 -1.247 9.920 1.00 20.28 H
ATOM		24.270 -0.789 8.786 1.00 20.28 H
ATOM	3139 C PHE 123	25.950 4.081 12.707 1.00 25.63 H
ATOM		26.828 4.120 13.539 1.00 20.28 H
ATOM		25.004 5.026 12.640 1.00 17.19 H
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ATOM		_ : , , ,
ATOM		24.514 5.526 14.894 1.00 17.19 H
ATOM	3147 O PRO 124	23.944 4.470 14.892 1.00 4.28 H
ATOM	3148 N LEU 125	24.678 6.236 15.986 1.00 19.50 H
ATOM		25.138 7.107 15.936 1.00 0.00 H
ATOM	3150 CA LEU 125	24.171 5.748 17.242 1.00 19.50 H
ATOM	3151 CB LEU 125	
ATOM	3152 CG LEU 125	
ATOM		25.063 3.598 18.689 1.00 14.01 H
		24.863 2.370 17.824 1.00 14.01 H
ATOM	3154 CD2 LEU 125	26.328 3.340 19.473 1.00 14.01 H
ATOM	3155 C LEU 125	23.729 6.914 18.145 1.00 19.50 H
ATOM	3156 O LEU 125	24.601 7.534 18.732 1.00 14.01 H
ATOM	3157 N GLY 126	22.404 7.240 18.168 1.00 17.68 H
ATOM	3158 H GLY 126	21.837 6.780 17.519 1.00 0.00 H
ATOM	3159 CA GLY 126	21.740 8.231 19.070 1.00 17.68 H
ATOM	3160 C GLY 126	22.217 9.585 19.618 1.00 17.68 H
ATOM	3161 O GLY 126	22.179 10.542 18.876 1.00 35.91 H
ATOM	3162 N THR 127	
ATOM	3163 H THR 127	
ATOM		
ATOM		23.120 11.071 21.330 1.00 35.90 H
		22.062 12.031 20.924 1.00 15.91 H
MOTA	3166 OG1 THR 127	20.904 11.257 20.517 1.00 15.91 H
ATOM	3167 HG1 THR 127	20.132 11.823 20.612 1.00 0.00 H
ATOM	3168 CG2 THR 127	22.567 12.896 19.772 1.00 15.91 H
ATOM	3169 C THR 127	23.545 11.298 22.838 1.00 35.90 H
ATOM	3170 O THR 127	23.299 10.377 23.660 1.00 15.91 H
ATOM	3171 N ALA 128	24.125 12.497 23.177 1.00 27.02 H
ATOM	3172 H ALA 128	24.181 13.172 22.457 1.00 0.00 H
ATOM	3173 CA ALA 128	24.712 12.921 24.526 1.00 27.02 H
ATOM	3174 CB ALA 128	00 744 40 405 05 850 4 55 5 5 5
ATOM	3175 C ALA 128	25.711 13.185 25.553 1.00 2.00 H
ATOM	3176 O ALA 128	25.697 11.870 25.011 1.00 27.02 H
ATOM		26.633 12.125 25.723 1.00 2.00 H
ATOM		25.395 10.655 24.642 1.00 2.00 H
	3178 H ALA 129	24.555 10.509 24.288 1.00 0.00 H
ATOM	3179 CA ALA 129	26.255 9.542 24.780 1.00 2.00 H
ATOM	3180 CB ALA 129	25.658 8.437 25.617 1.00 10.42 H
ATOM	3181 C ALA 129	25.896 9.304 23.318 1.00 2.00 H
ATOM	3182 O ALA 129	24.719 9.273 22.987 1.00 10.42 H
ATOM	3183 N LEU 130	26.853 9.203 22.413 1.00 26.62 H
ATOM	3184 H LEU 130	27.791 9.354 22.635 1.00 0.00 H
ATOM	3185 CA LEU 130	26.468 8.875 21.049 1.00 26.62 H
ATOM	3186 CB LEU 130	26.065 10.147 20.274 1.00 8.98 H
ATOM	3187 CG LEU 130	
	3188 CD1 LEU 130	26.875 11.431 20.328 1.00 8.98 H
ATOM	3189 CD2 LEU 130	27.837 11.433 19.149 1.00 8.98 H
	5.55 552 LLO 150	25.978 12.663 20.288 1.00 8.98 H

ATOM	3190	C LEU 130	27.621 8.088 20.388 1.00 26.62	Н
ATOM	3191	O LEU 130	28.647 7.751 21.045 1.00 8.98	H
ATOM	3192		27.470 7.760 19.110 1.00 14.74	Н
ATOM	3193		26.664 8.026 18.613 1.00 0.00	H
ATOM		CA GLY 131	28.530 7.019 18.464 1.00 14.74	Ĥ
ATOM	3195		28.257 6.354 17.151 1.00 14.74	н
ATOM	3196		27.294 6.654 16.493 1.00 15.90	H
ATOM	3197		29.147 5.441 16.797 1.00 4.08	H
ATOM		H CYS 132	29.894 5.265 17.404 1.00 0.00	H
ATOM		CA CYS 132	29.089 4.675 15.555 1.00 4.08	H
ATOM	3200		29.289 3.186 15.777 1.00 4.08	H
ATOM	3201	O CYS 132	30.152 2.737 16.551 1.00 17.95	H
ATOM		CB CYS 132	30.138 5.183 14.567 1.00 17.95	H
ATOM		SG CYS 132	29.771 6.893 14.087 1.00 17.95	H
ATOM		N LEU 133	28.445 2.413 15.120 1.00 2.00	н''
ATOM		H LEU 133	27.750 2.820 14.569 1.00 0.00	н
ATOM		CA LEU 133	28.522 0.995 15.202 1.00 2.00	H
ATOM		CB LEU 133	27.118 0.425 15.269 1.00 10.63	H
ATOM		CG LEU 133	27.184 -1.096 15.397 1.00 10.63	H
ATOM		CD1 LEU 133	27.769 -1.485 16.789 1.00 10.63	H
ATOM		CD2 LEU 133	25.789 -1.657 15.170 1.00 10.63	H
ATOM	3211	C LEU 133	29.206 0.615 13.915 1.00 2.00	н''
ATOM		O LEU 133	28.672 0.832 12.846 1.00 10.63	H
ATOM	3213		30.402 0.067 14.036 1.00 18.80	H
ATOM	3214		30.777 -0.066 14.929 1.00 0.00	H
ATOM		CA VAL 134	31.201 -0.358 12.893 1.00 18.80	Ή.
ATOM		CB VAL 134	32.680 -0.002 13.152 1.00 8.71	н
ATOM		CG1 VAL 134	33.587 -0.368 11.982 1.00 8.71	H
ATOM		CG2 VAL 134	32.752 1.506 13.437 1.00 8.71	H
ATOM	3219	C VAL 134	30.987 -1.859 12.823 1.00 18.80	н
ATOM	3220	O VAL 134	31.552 -2.608 13.597 1.00 8.71	H
ATOM	3221	N LYS 135	30.194 -2.280 11.855 1.00 2.00	H
ATOM	3222		29.850 -1.632 11.215 1.00 0.00	Н
ATOM		CA LYS 135	29.817 -3.660 11.721 1.00 2.00	Н
ATOM	3224	CB LYS 135	28.273 -3.762 11.682 1.00 10.66	H
ATOM	3225	CG LYS 135	27.707 -4.938 12.405 1.00 10.66	Н
MOTA	3226	CD LYS 135	26.373 -5.408 11.886 1.00 10.66	Н
ATOM	3227	CE LYS 135	26.118 -6.849 12.444 1.00 10.66	Н
ATOM		NZ LYS 135	25.156 -7.797 11.711 1.00 10.66	Н
ATOM	3229	HZ1 LYS 135	25.609 -8.730 11.668 1.00 0.00	Н
MOTA	3230	HZ2 LYS 135	24.974 -7.439 10.757 1.00 0.00	Н
MOTA		HZ3 LYS 135	24.244 -7.880 12.226 1.00 0.00	Н
ATOM	3232		30.362 -4.464 10.581 1.00 2.00	Н
ATOM	3233		30.592 -3.950 9.493 1.00 10.66	Н
ATOM	3234		30.511 -5.761 10.867 1.00 22.33	Н
ATOM	3235		30.316 -6.040 11.789 1.00 0.00	Н
ATOM		CA ASP 136	30.954 -6.787 9.923 1.00 22.33	Н
ATOM		CB ASP 136	29.760 -7.272 9.102 1.00 13.68	Н
ATOM		CG ASP 136	28.607 -7.761 9.960 1.00 13.68	Н
MOTA		OD1 ASP 136	28.794 -8.090 11.143 1.00 13.68	Н
ATOM		OD2 ASP 136	27.478 -7.832 9.436 1.00 13.68	Н
ATOM	3241		32.136 -6.516 8.971 1.00 22.33	Н
ATOM	3242		31.968 -6.263 7.763 1.00 13.68	Н
ATOM	3243			Н
ATOM	3244		33.423 -6.828 10.476 1.00 0.00	Н
ATOM	3245	CA TYR 137	34.533 -6.410 8.725 1.00 4.95	Н

ATOM 3248 CD1 TYR 137 ATOM 3249 CE1 TYR 137 ATOM 3250 CD2 TYR 137 ATOM 3251 CE2 TYR 137 ATOM 3252 CZ TYR 137 ATOM 3253 OH TYR 137 ATOM 3254 HH TYR 137 ATOM 3255 C TYR 137 ATOM 3255 C TYR 137 ATOM 3256 O TYR 137 ATOM 3257 N PHE 138 ATOM 3258 H PHE 138 ATOM 3259 CA PHE 138 ATOM 3260 CB PHE 138 ATOM 3261 CG PHE 138 ATOM 3263 CD2 PHE 138 ATOM 3263 CD2 PHE 138 ATOM 3264 CE1 PHE 138	.00 4.86 H .00 4.86 H	
ATOM 3247 CG TYR 137 ATOM 3248 CD1 TYR 137 ATOM 3249 CE1 TYR 137 ATOM 3250 CD2 TYR 137 ATOM 3251 CE2 TYR 137 ATOM 3252 CZ TYR 137 ATOM 3253 OH TYR 137 ATOM 3253 OH TYR 137 ATOM 3254 HH TYR 137 ATOM 3255 C TYR 137 ATOM 3256 O TYR 137 ATOM 3257 N PHE 138 ATOM 3258 H PHE 138 ATOM 3259 CA PHE 138 ATOM 3260 CB PHE 138 ATOM 3261 CG PHE 138 ATOM 3263 CD2 PHE 138 ATOM 3263 CD2 PHE 138 ATOM 3264 CE1 PHE 138 ATOM 3265 CE2 PHE 138	.00 4.86 H .00 4.86 H	
ATOM 3248 CD1 TYR 137 ATOM 3249 CE1 TYR 137 ATOM 3250 CD2 TYR 137 ATOM 3251 CE2 TYR 137 ATOM 3252 CZ TYR 137 ATOM 3253 OH TYR 137 ATOM 3254 HH TYR 137 ATOM 3255 C TYR 137 ATOM 3255 C TYR 137 ATOM 3256 O TYR 137 ATOM 3257 N PHE 138 ATOM 3258 H PHE 138 ATOM 3259 CA PHE 138 ATOM 3260 CB PHE 138 ATOM 3261 CG PHE 138 ATOM 3263 CD2 PHE 138 ATOM 3263 CD2 PHE 138 ATOM 3264 CE1 PHE 138 ATOM 3265 CE2 PHE 138	.00 4.86 H	
ATOM 3249 CE1 TYR 137 ATOM 3250 CD2 TYR 137 ATOM 3251 CE2 TYR 137 ATOM 3252 CZ TYR 137 ATOM 3253 OH TYR 137 ATOM 3253 OH TYR 137 ATOM 3254 HH TYR 137 ATOM 3255 C TYR 137 ATOM 3256 O TYR 137 ATOM 3257 N PHE 138 ATOM 3258 H PHE 138 ATOM 3259 CA PHE 138 ATOM 3260 CB PHE 138 ATOM 3261 CG PHE 138 ATOM 3263 CD2 PHE 138 ATOM 3263 CD2 PHE 138 ATOM 3264 CE1 PHE 138 ATOM 3265 CE2 PHE 138	.00 4.86 H	1
ATOM 3250 CD2 TYR 137 ATOM 3251 CE2 TYR 137 ATOM 3252 CZ TYR 137 ATOM 3253 OH TYR 137 ATOM 3254 HH TYR 137 ATOM 3255 C TYR 137 ATOM 3256 O TYR 137 ATOM 3257 N PHE 138 ATOM 3258 H PHE 138 ATOM 3259 CA PHE 138 ATOM 3260 CB PHE 138 ATOM 3261 CG PHE 138 ATOM 3262 CD1 PHE 138 ATOM 3263 CD2 PHE 138 ATOM 3264 CE1 PHE 138 ATOM 3265 CE2 PHE 138		4
ATOM 3250 CD2 TYR 137 ATOM 3251 CE2 TYR 137 ATOM 3252 CZ TYR 137 ATOM 3253 OH TYR 137 ATOM 3253 OH TYR 137 ATOM 3254 HH TYR 137 ATOM 3255 C TYR 137 ATOM 3256 O TYR 137 ATOM 3257 N PHE 138 ATOM 3258 H PHE 138 ATOM 3259 CA PHE 138 ATOM 3260 CB PHE 138 ATOM 3261 CG PHE 138 ATOM 3262 CD1 PHE 138 ATOM 3263 CD2 PHE 138 ATOM 3264 CE1 PHE 138 ATOM 3265 CE2 PHE 138		4
ATOM 3251 CE2 TYR 137 ATOM 3252 CZ TYR 137 ATOM 3253 OH TYR 137 ATOM 3253 OH TYR 137 ATOM 3254 HH TYR 137 ATOM 3255 C TYR 137 ATOM 3256 O TYR 137 ATOM 3257 N PHE 138 ATOM 3258 H PHE 138 ATOM 3259 CA PHE 138 ATOM 3260 CB PHE 138 ATOM 3261 CG PHE 138 ATOM 3262 CD1 PHE 138 ATOM 3263 CD2 PHE 138 ATOM 3264 CE1 PHE 138 ATOM 3265 CE2 PHE 138	UU 4 AA P	ė
ATOM 3252 CZ TYR 137 ATOM 3253 OH TYR 137 ATOM 3254 HH TYR 137 ATOM 3255 C TYR 137 ATOM 3255 C TYR 137 ATOM 3256 O TYR 137 ATOM 3257 N PHE 138 ATOM 3258 H PHE 138 ATOM 3259 CA PHE 138 ATOM 3260 CB PHE 138 ATOM 3261 CG PHE 138 ATOM 3262 CD1 PHE 138 ATOM 3263 CD2 PHE 138 ATOM 3264 CE1 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138	.00 4.86 F	
ATOM 3253 OH TYR 137 ATOM 3254 HH TYR 137 ATOM 3255 C TYR 137 ATOM 3255 C TYR 137 ATOM 3256 O TYR 137 ATOM 3257 N PHE 138 ATOM 3258 H PHE 138 ATOM 3259 CA PHE 138 ATOM 3260 CB PHE 138 ATOM 3261 CG PHE 138 ATOM 3262 CD1 PHE 138 ATOM 3263 CD2 PHE 138 ATOM 3264 CE1 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138		
ATOM 3254 HH TYR 137 ATOM 3255 C TYR 137 ATOM 3256 O TYR 137 ATOM 3257 N PHE 138 ATOM 3258 H PHE 138 ATOM 3259 CA PHE 138 ATOM 3260 CB PHE 138 ATOM 3261 CG PHE 138 ATOM 3262 CD1 PHE 138 ATOM 3263 CD2 PHE 138 ATOM 3264 CE1 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138	00 4.86 H	
ATOM 3255 C TYR 137 ATOM 3256 O TYR 137 ATOM 3257 N PHE 138 ATOM 3258 H PHE 138 ATOM 3259 CA PHE 138 ATOM 3260 CB PHE 138 ATOM 3261 CG PHE 138 ATOM 3262 CD1 PHE 138 ATOM 3263 CD2 PHE 138 ATOM 3264 CE1 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138	00 4.86 H	
ATOM 3256 O TYR 137 ATOM 3257 N PHE 138 ATOM 3258 H PHE 138 ATOM 3259 CA PHE 138 ATOM 3260 CB PHE 138 ATOM 3261 CG PHE 138 ATOM 3262 CD1 PHE 138 ATOM 3263 CD2 PHE 138 ATOM 3264 CE1 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138	00 0.00 H	l
ATOM 3256 O TYR 137 ATOM 3257 N PHE 138 ATOM 3258 H PHE 138 ATOM 3259 CA PHE 138 ATOM 3260 CB PHE 138 ATOM 3261 CG PHE 138 ATOM 3262 CD1 PHE 138 ATOM 3263 CD2 PHE 138 ATOM 3264 CE1 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138 ATOM 3265 CE2 PHE 138	0 4.95 H	
ATOM 3257 N PHE 138 36.567 -7.535 8.321 1.00 ATOM 3258 H PHE 138 36.522 -7.072 7.461 1.00 ATOM 3259 CA PHE 138 37.690 -8.403 8.559 1.0 ATOM 3260 CB PHE 138 37.285 -9.842 8.243 1.0 ATOM 3261 CG PHE 138 38.360 -10.849 8.495 1.0 ATOM 3262 CD1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3264 CE1 PHE 138 40.439 -11.972 7.834 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 36.567 -7.535 8.321 1.00 ATOM 3269 CB PHE 138 37.690 -8.403 8.559 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 36.567 -7.535 8.321 1.00 ATOM 3269 CB PHE 138 37.690 -8.403 8.559 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 36.522 -7.072 7.461 1.00 ATOM 3269 -8.403 8.559 1.0 ATOM 3260 CB PHE 138 38.360 -10.849 8.495 1.0 ATOM 3263 CD2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 36.522 -7.072 7.461 1.00 ATOM 3260 CB PHE 138 37.285 -9.842 8.243 1.0 ATOM 3261 CG PHE 138 38.360 -10.849 8.495 1.0 ATOM 3263 CD2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 39.404 -10.004 8.495 1.0 ATOM 3265 CE2 PHE 138 39.404 -10.004 8.495 1.0 ATOM 3265 CE2 PHE 138 39.404 -10.004 8.495 1.0 ATOM 3265 CE2 PHE 138 39.404 -10.004 8.495 1.0 ATOM 3265 CE2 PHE 138 39.404 -10.004 8.495 1.0 ATOM 3265 CE2 PHE 138 39.404 -10.004 8.495 1.0 ATOM 3265 CE2 PHE 138 39.404 -10.004 8.495 1.0 ATOM 3265 CE2 PHE 138 39.404 -10.004 8.495 1.0 ATOM 3265 CE2 PHE 138 39.404 -10.004 8.495 1.0 ATOM 3265 CE2 PHE 138 39.404 -10.004 8.495 1.0 ATOM 3265 CE2 PHE 138 39.404 -10.004 8.495 1.0 ATOM 3265 CE2 PHE 138 39.404 -10.004 8.495 1.0 ATOM 3265 CE2 PHE 138 39.404 -10.004 8.495 1.0 ATOM 3265 CE2 PHE 138 39.404 -10.004 8.495 1.0 ATOM 3265 CE2 PHE 138 39.404 -10.004 8.495 1.0 ATOM 3265 CE2 P	0 4.86 H	
ATOM 3258 H PHE 138 36.522 -7.072 7.461 1.00 ATOM 3259 CA PHE 138 37.690 -8.403 8.559 1.0 ATOM 3260 CB PHE 138 37.285 -9.842 8.243 1.0 ATOM 3261 CG PHE 138 38.360 -10.849 8.495 1.0 ATOM 3262 CD1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3263 CD2 PHE 138 38.328 -11.645 9.651 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 36.522 -7.072 7.461 1.00 ATOM 3260 CB PHE 138 38.360 -10.849 8.495 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 37.690 -8.403 8.559 1.0 ATOM 3265 CE2 PHE 138 37.285 -9.842 8.243 1.0 ATOM 3265 CE2 PHE 138 38.360 -10.849 8.495 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0 ATOM 3265 CE2 PHE 138 37.285 -9.842 8.243 1.0 ATOM 3263 CD2 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3264 CE1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3264 CE1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3264 CE1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3264 CE1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3264 CE1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3264 CE1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3264 CE1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3264 CE1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3264 CE1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3265 CE2 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3264 CE1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3264 CE1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3264 CE1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3264 CE1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3264 CE1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3265 CE2 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3265 CE2 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3265 CE2 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3265 CE2 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3265 CE2 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3265 CE2 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3265 CE2 PHE 138 39.414 -11.010	0 2.24 H	
ATOM 3259 CA PHE 138 37.690 -8.403 8.559 1.0 ATOM 3260 CB PHE 138 37.285 -9.842 8.243 1.0 ATOM 3261 CG PHE 138 38.360 -10.849 8.495 1.0 ATOM 3262 CD1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3263 CD2 PHE 138 38.328 -11.645 9.651 1.0 ATOM 3264 CE1 PHE 138 40.439 -11.972 7.834 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0		
ATOM 3260 CB PHE 138 37.285 -9.842 8.243 1.0 ATOM 3261 CG PHE 138 38.360 -10.849 8.495 1.0 ATOM 3262 CD1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3263 CD2 PHE 138 38.328 -11.645 9.651 1.0 ATOM 3264 CE1 PHE 138 40.439 -11.972 7.834 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0		
ATOM 3261 CG PHE 138 38.360 -10.849 8.495 1.0 ATOM 3262 CD1 PHE 138 39.414 -11.010 7.586 1.0 ATOM 3263 CD2 PHE 138 38.328 -11.645 9.651 1.0 ATOM 3264 CE1 PHE 138 40.439 -11.972 7.834 1.0 ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0	00 2.24 H	
ATOM 3262 CD1 PHE 138 39.414 -11.010 7.586 1. ATOM 3263 CD2 PHE 138 38.328 -11.645 9.651 1. ATOM 3264 CE1 PHE 138 40.439 -11.972 7.834 1. ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.0	00 3.76 H	
ATOM 3263 CD2 PHE 138 38.328 -11.645 9.651 1. ATOM 3264 CE1 PHE 138 40.439 -11.972 7.834 1. ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.	00 3.76 H	ł
ATOM 3263 CD2 PHE 138 38.328 -11.645 9.651 1. ATOM 3264 CE1 PHE 138 40.439 -11.972 7.834 1. ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.	.00 3.76 H	4
ATOM 3264 CE1 PHE 138 40.439 -11.972 7.834 1. ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.	.00 3.76 F	
ATOM 3265 CE2 PHE 138 39.309 -12.579 9.909 1.		
ATOM 3266 CZ PHP 138 46367-19766 6649 46	00 3.76 ⊢	
ATOM 3267 C PHE 138 38.804 -7.999 7.647 1.00		
	3.76 H	
ATOM 3269 N PRO 139 40.027 -8.112 8.112 1.00	3.07 H	
ATOM 3270 CD PRO 139 41.285 -7.788 7.398 1.0		
ATOM 3271 CA PRO 139 40.300 -8.578 9.443 1.0		
1-01	00 8.60 H	
	00 8.60 H	
ATOM 3274 C PRO 139 40.400 -7.236 10.179 1.00		
ATOM 3275 O PRO 139 39.733 -6.264 9.806 1.00		
ATOM 3276 N GLU 140 41.252 -7.188 11.194 1.00	0 12.02 H	
ATOM 3277 H GLU 140 41.785 -7.988 11.409 1.00	0 0.00 H	
ATOM 3278 CA GLU 140 41.423 -6.001 12.000 1.0	00 12.02 H	ı
ATOM DOTE OF CLASS AND COMMENT	00 2.00 H	
	00 2.00 H	
	00 2.00 H	
11:010 0:110 10:100 1:		ı
ATOM 3284 C GLU 140 42.562 -5.140 11.480 1.00		
ATOM 3285 O GLU 140 43.404 -5.576 10.726 1.00		
ATOM 3286 N PRO 141 42.633 -3.908 11.924 1.00	0 18.13 H	
ATOM 3287 CD PRO 141 43.822 -3.090 11.704 1.0	00 9.98 H	
ATOM 3288 CA PRO 141 41.745 -3.250 12.850 1.0	00 18.13 H	
ATOM 3289 CB PRO 141 42.705 -2.632 13.813 1.0		
ATOM 3290 CG PRO 141 43.806 -2.198 12.938 1.0		
m:100 12:000 1;0		
2,,00 ,2,,01		
ATOM 3292 O PRO 141 41.372 -1.766 11.033 1.00	O 9.98 H	
ATOM 3293 N VAL 142 39.907 -1.748 12.763 1.00	2.27 H	
ATOM 3294 H VAL 142 39.651 -2.179 13.603 1.00	0.00 H	
ATOM 3295 CA VAL 142 39.074 -0.662 12.250 1.00	0 2.27 H	
ATOM 3296 CB VAL 142 37.572 -0.925 12.551 1.00	0 17.64 H	
ATOM 3297 CG1 VAL 142 36.951 0.263 13.227 1.0		
ATOM 3298 CG2 VAL 142 36.821 -1.245 11.308 1.0	00 17.64 H	
ATOM 3299 C VAL 142 39.571 0.447 13.177 1.00		ı
10,111		
1.00		
ATOM 3301 N THR 143 39.794 1.623 12.640 1.00	4.49 H	

MOTA	3302 H THR 143	39.687 1.793 11.707 1.00 0.00	Н
MOTA	3303 CA THR 143	40.211 2.687 13.499 1.00 4.49	Н
ATOM	3304 CB THR 143	41.478 3.301 12.995 1.00 5.35	Н
ATOM	3305 OG1 THR 143	42,222 3.793 14.101 1.00 5.35	Н
		42.829 4.471 13.780 1.00 0.00	H
MOTA			
MOTA	3307 CG2 THR 143	41.185 4.411 12.031 1.00 5.35	Н
ATOM	3308 C THR 143	39.069 3.671 13.543 1.00 4.49	Н
ATOM	3309 O THR 143	38.241 3.720 12.640 1.00 5.35	Н
ATOM	3310 N VAL 144	38.993 4.427 14.621 1.00 9.79	H
MOTA	3311 H VAL 144	39.654 4.362 15.344 1.00 0.00	Н
ATOM	3312 CA VAL 144	37.894 5.352 14.736 1.00 9.79	Н
ATOM	3313 CB VAL 144	36.729 4.753 15.557 1.00 6.99	Н
ATOM	3314 CG1 VAL 144	35.587 5.761 15.634 1.00 6.99	Н
ATOM	3315 CG2 VAL 144	36.283 3.449 14.947 1.00 6.99	Н
ATOM		38.252 6.675 15.347 1.00 9.79	Н
ATOM	3317 O VAL 144	38.723 6.749 16.461 1.00 6.99	Н
ATOM	3318 N SER 145	37.993 7.722 14.588 1.00 2.82	Н
MOTA	3319 H SER 145	37.617 7.591 13.700 1.00 0.00	Н
ATOM	3320 CA SER 145	38.234 9.052 15.024 1.00 2.82	Н
ATOM	3321 CB SER 145		
			Н
ATOM	3322 OG SER 145	39.932 10.546 14.767 1.00 2.00	Н
ATOM	3323 HG SER 145	39.831 10.337 15.705 1.00 0.00	Н
ATOM	3324 C SER 145	36.954 9.843 15.139 1.00 2.82	Н
ATOM	3325 O SER 145	35.986 9.511 14.503 1.00 2.00	Н
MOTA	3326 N TRP 146	36.973 10.890 15.956 1.00 2.00	Н
ATOM	3327 H TRP 146	37.796 11.058 16.484 1.00 0.00	H
ATOM	3328 CA TRP 146		
			Н
MOTA	3329 CB TRP 146	35.217 11.742 17.514 1.00 9.36	Н
MOTA	3330 CG TRP 146	34.445 10.523 17.791 1.00 9.36	Н
ATOM	3331 CD2 TRP 146	33.084 10.238 17.435 1.00 9.36	Н
ATOM	3332 CE2 TRP 146	32.804 8.912 17.861 1.00 9.36	Н
ATOM	3333 CE3 TRP 146	32.074 10.962 16.808 1.00 9.36	Н
ATOM	3334 CD1 TRP 146	34.919 9.417 18.390 1.00 9.36	H
ATOM	3335 NE1 TRP 146	33.943 8.423 18.440 1.00 9.36	H
ATOM	3336 HE1 TRP 146		
			Н
ATOM	3337 CZ2 TRP 146	31.559 8.293 17.664 1.00 9.36	Н
ATOM	3338 CZ3 TRP 146	30.833 10.343 16.610 1.00 9.36	. H
ATOM	3339 CH2 TRP 146	30.590 9.020 17.042 1.00 9.36	Н
ATOM	3340 C TRP 146	36.189 13.272 15.762 1.00 2.00	Н
ATOM	3341 O TRP 146	37.045 13.909 16.405 1.00 9.36	Н
ATOM	3342 N ASN 147	35.497 13.797 14.740 1.00 16.76	Н
ATOM	3343 H ASN 147	34.838 13.223 14.309 1.00 0.00	
ATOM			Н
		35.655 15.166 14.225 1.00 16.76	Н
ATOM	3345 CB ASN 147	35.174 16.193 15.241 1.00 3.93	Н
ATOM	3346 CG ASN 147	33.652 16.272 15.287 1.00 3.93	Н
ATOM	3347 OD1 ASN 147	32.999 15.814 14.415 1.00 3.93	Н
MOTA	3348 ND2 ASN 147	33.111 16.842 16.309 1.00 3.93	Н
ATOM	3349 HD21 ASN 147	33.624 17.504 16.822 1.00 0.00	H
ATOM	3350 HD22 ASN 147		
ATOM		32.199 16.589 16.542 1.00 0.00	Н
		37.085 15.382 13.871 1.00 16.76	Н
MOTA	3352 O ASN 147	37.711 16.371 14.226 1.00 3.93	Н
MOTA	3353 N SER 148	37.606 14.388 13.178 1.00 8.82	Н
ATOM	3354 H SER 148	37.032 13.623 12.984 1.00 0.00	Н
ATOM	3355 CA SER 148	38.967 14.388 12.714 1.00 8.82	Н
ATOM	3356 CB SER 148	39.118 15.503 11.700 1.00 24.82	H
MOTA	3357 OG SER 148	38.105 15.395 10.725 1.00 24.82	H
	140	00.100 10.000 10.120 1.00 24.02	F1

ATOM	3358 HG SER 148	37.376 14.859 11.060 1.00 0.00	Н
ATOM		39.985 14.503 13.826 1.00 8.82	н
ATOM		41.062 15.079 13.655 1.00 24.82	H
ATOM		39.652 13.977 14.993 1.00 2.00	н
ATOM		38.760 13.580 15.132 1.00 0.00	Н
ATOM			H
ATOM		40.586 15.231 16.970 1.00 2.00	н
ATOM		41.367 15.334 17.919 1.00 23.25	H
ATOM		39.721 16.169 16.670 1.00 30.14	н
ATOM		39.118 16.071 15.907 1.00 0.00	н
ATOM		39.666 17.354 17.497 1.00 30.14	H
ATOM		39.042 18.520 16.707 1.00 17.12	H
ATOM		38.821 17.036 18.738 1.00 30.14	н
ATOM	3371 O ALA 150	38.694 17.864 19.653 1.00 17.12	H
ATOM	3372 N LEU 151	38.228 15.845 18.733 1.00 11.27	Н
ATOM	3373 H LEU 151	38.380 15.252 17.961 1.00 0.00	н
ATOM	3374 CA LEU 151	37.365 15.387 19.801 1.00 11.27	Н
ATOM	3375 CB LEU 151	35.899 15.287 19.297 1.00 2.07	н
ATOM	3376 CG LEU 151	34.908 14.446 20.144 1.00 2.07	H
ATOM	3377 CD1 LEU 151		H
ATOM	3378 CD2 LEU 151	33.413 14.478 19.686 1.00 2.07	H
ATOM	3379 C LEU 151	37.883 14.040 20.270 1.00 11.27	н
ATOM	3380 O LEU 151	37.842 13.046 19.564 1.00 2.07	H
ATOM	3381 N THR 152	38.387 14.022 21.492 1.00 15.83	Н
ATOM	3382 H THR 152	38.397 14.845 22.020 1.00 0.00	Н
MOTA	3383 CA THR 152	38.920 12.796 22.054 1.00 15.83	Н
MOTA	3384 CB THR 152	40.497 12.766 21.918 1.00 17.89	Н
MOTA	3385 OG1 THR 152	2 41.105 13.720 22.794 1.00 17.89	H
ATOM	3386 HG1 THR 152		Н
MOTA	3387 CG2 THR 152		H
MOTA	3388 C THR 152	38.470 12.630 23.504 1.00 15.83	Н
MOTA	3389 O THR 152	38.323 11.523 24.024 1.00 17.89	Н
MOTA	3390 N SER 153	38.245 13.741 24.166 1.00 6.13	Н
MOTA	3391 H SER 153	38.373 14.613 23.741 1.00 0.00	Н
MOTA	3392 CA SER 153	37.796 13.645 25.530 1.00 6.13	Н
MOTA	3393 CB SER 153	37.684 15.032 26.147 1.00 6.80	Н
MOTA MOTA	3394 OG SER 153 3395 HG SER 153	38.241 15.067 27.436 1.00 6.80	Н
ATOM		38.334 15.968 27.731 1.00 0.00	Н
ATOM	3396 C SER 153 3397 O SER 153	36.443 12.960 25.477 1.00 6.13	Н
ATOM	3398 N GLY 154	35.634 13.247 24.581 1.00 6.80	Н
ATOM	3399 H GLY 154	36.236 12.048 26.426 1.00 9.52 36.957 11.891 27.078 1.00 0.00	H
ATOM	3400 CA GLY 154	35.012 11.291 26.518 1.00 9.52	н.
ATOM	3401 C GLY 154	34.829 10.160 25.497 1.00 9.52	Н
ATOM	3402 O GLY 154		H H
ATOM	3403 N VAL 155	35.870 9.852 24.750 1.00 13.65	Н
ATOM	3404 H VAL 155	36.737 10.314 24.835 1.00 0.00	H
ATOM	3405 CA VAL 155	35.653 8.813 23.798 1.00 13.65	Н
ATOM	3406 CB VAL 155	36.412 9.125 22.524 1.00 8.63	Н
MOTA	3407 CG1 VAL 155	36.364 7.980 21.558 1.00 8.63	Ή
MOTA	3408 CG2 VAL 155	35.814 10.302 21.917 1.00 8.63	H
MOTA	3409 C VAL 155	00 000 7 400 0	н
MOTA	3410 O VAL 155		H
ATOM	3411 N HIS 156	35.219 6.442 23.835 1.00 7.26 F	1
ATOM	3412 H HIS 156	34.460 6.650 23.261 1.00 0.00 H	i
MOTA	3413 CA HIS 156	05 500 5 001	Н

ATOM	3414 CB HIS 156	34.552 4.480 25.151 1.00 3.40	Н
ATOM	3415 CG HIS 156	34.735 5.025 26.508 1.00 3.40	Н
ATOM	3416 CD2 HIS 156	33.842 5.335 27.473 1.00 3.40	H
ATOM			Н
	3417 ND1 HIS 156		
ATOM	3418 HD1 HIS 156	36.822 5.288 26.512 1.00 0.00	H
ATOM	3419 CE1 HIS 156	35.824 5.913 28.195 1.00 3.40	Н
ATOM	3420 NE2 HIS 156	34.546 5.888 28.509 1.00 3.40	Н
ATOM	3421 HE2 HIS 156	34.155 6.214 29.338 1.00 0.00	H
ATOM	3422 C HIS 156	35.331 4.268 22.881 1.00 7.26	Н
ATOM	3423 O HIS 156	34.202 4.129 22.399 1.00 3.40	Н
ATOM	3424 N THR 157	36.425 3.795 22.290 1.00 11.20	Н
ATOM	3425 H THR 157	37.336 4.005 22.588 1.00 0.00	Н
ATOM	3426 CA THR 157	36.187 2.926 21.170 1.00 11.20	Н
ATOM	3427 CB THR 157	36.856 3.336 19.810 1.00 18.17	Н
ATOM	3428 OG1 THR 157	37.647 2.252 19.342 1.00 18.17	Н
ATOM	3429 HG1 THR 157	37.099 1.453 19.319 1.00 0.00	Н
ATOM	3430 CG2 THR 157	37.624 4.617 19.899 1.00 18.17	Н
ATOM	3431 C THR 157	36.588 1.569 21.691 1.00 11.20	Н
ATOM	3432 O THR 157	37.650 1.343 22.210 1.00 18.17	Н
ATOM	3433 N PHE 158	35.627 0.696 21.619 1.00 2.00	Н
MOTA	3434 H PHE 158	34.780 0.978 21.204 1.00 0.00	Н
ATOM	3435 CA PHE 158	35.720 -0.652 22.098 1.00 2.00	Н
ATOM	3436 CB PHE 158	34.300 -1.223 22.221 1.00 16.07	Н
ATOM	3437 CG PHE 158	33.456 -0.496 23.213 1.00 16.07	Н
ATOM	3438 CD1 PHE 158	32.575 0.486 22.791 1.00 16.07	Н
ATOM	3439 CD2 PHE 158	33.647 -0.709 24.588 1.00 16.07	Н
ATOM	3440 CE1 PHE 158	31.901 1.269 23.703 1.00 16.07	Н
ATOM	3441 CE2 PHE 158	32.988 0.057 25.525 1.00 16.07	Н
ATOM	3442 CZ PHE 158	32.107 1.064 25.084 1.00 16.07	H
ATOM	3443 C PHE 158	36.542 -1.674 21.399 1.00 2.00	Н
ATOM	3444 O PHE 158	36.801 -1.623 20.223 1.00 16.07	H
ATOM	3445 N PRO 159	37.075 -2.571 22.180 1.00 2.37	H
ATOM	3446 CD PRO 159	37.187 -2.543 23.651 1.00 4.22	'н
ATOM	3447 CA PRO 159	37.858 -3.639 21.593 1.00 2.37	н
ATOM	3448 CB PRO 159	38.287 -4.444 22.826 1.00 4.22	Н
ATOM	3449 CG PRO 159	38.403 -3.366 23.873 1.00 4.22	H
ATOM	3450 C PRO 159	36.832 -4.333 20.695 1.00 2.37	н
ATOM	3451 O PRO 159	35.653 -4.359 20.993 1.00 4.22	H
ATOM	3452 N ALA 160	37.258 -4.881 19.577 1.00 2.00	н
ATOM	3453 H ALA 160	38.213 -4.881 19.348 1.00 0.00	H
ATOM	3454 CA ALA 160	36.309 -5.505 18.674 1.00 2.00	H
ATOM	3455 CB ALA 160	36.913 -5.682 17.298 1.00 13.12	H
ATOM	3456 C ALA 160	35.867 -6.807 19.195 1.00 2.00	н
ATOM	3457 O ALA 160	36.532 -7.448 19.976 1.00 13.12	H
ATOM	3458 N VAL 161	34.745 -7.223 18.691 1.00 2.00	H
ATOM	3459 H VAL 161	34.288 -6.685 18.003 1.00 0.00	Н
ATOM	3460 CA VAL 161	34.163 -8.468 19.095 1.00 2.00	H
ATOM	3461 CB VAL 161	32.808 -8.153 19.810 1.00 14.39	
ATOM	3462 CG1 VAL 161	31.727 -9.075 19.395 1.00 14.39	Н
ATOM	3463 CG2 VAL 161	33.028 -8.158 21.308 1.00 14.39	Н
ATOM	3464 C VAL 161	34.021 -9.298 17.831 1.00 2.00	Η
ATOM	3465 O VAL 161	33.651 -8.814 16.779 1.00 14.39	Н
ATOM	3466 N LEU 162	34.344 -10.559 17.948 1.00 2.12	Н
ATOM	3467 H LEU 162	34.607 -10.890 18.833 1.00 0.00	H
ATOM	3468 CA LEU 162	34 326 -11 470 46 626 4 00 0 40	H
ATOM	3469 CB LEU 162	34.326 -11.470 16.828 1.00 2.12 35.513 -12.402 16.083 1.00 18.88	Н
, O IVI	0.00 OD EEU 102	35.513 -12.402 16.983 1.00 18.88	Н

ATOM	3470	CG LEU	162	35.608 -13.648 16.136 1.00 18.88	Н
ATOM		CD1 LEU		36.216 -13.237 14.811 1.00 18.88	H
ATOM		CD2 LEU		36.485 -14.701 16.868 1.00 18.88	Н
ATOM			162	33.034 -12.267 16.681 1.00 2.12	н
ATOM			162	32.676 -13.111 17.502 1.00 18.88	H
ATOM	_		163	32.323 -11.968 15.612 1.00 25.59	Н
ATOM			163	32.651 -11.283 15.002 1.00 0.00	н
ATOM		CA GLN		31.068 -12.631 15.330 1.00 25.59	ĽН
ATOM		CB GLN		30.289 -11.788 14.355 1.00 16.30	H
ATOM		CG GLN		30.236 -10.394 14.808 1.00 16.30	H
ATOM		CD GLN		29.641 -9.506 13.764 1.00 16.30	Н
ATOM				28.429 -9.185 13.817 1.00 16.30	H
ATOM		NE2 GLN		30.479 -9.089 12.786 1.00 16.30	H
ATOM		HE21 GL			H
ATOM		HE22 GLI			H
ATOM			163	31.224 -14.047 14.786 1.00 25.59	H
ATOM			163	32.198 -14.397 14.109 1.00 16.30	H
ATOM			164	30.233 -14.855 15.093 1.00 2.44	H
ATOM			164	29.486 -14.511 15.625 1.00 0.00	H
ATOM		CA SER		30.222 -16.216 14.665 1.00 2.44	H
ATOM		CB SER		28.850 -16.772 14.892 1.00 31.47	H
ATOM	3491			27.967 -16.005 14.115 1.00 31.47	H
ATOM		HG SER		27.078 -16.060 14.476 1.00 0.00	H
ATOM	3493		164	30.532 -16.221 13.186 1.00 2.44	н
ATOM	3494		164	31.243 -17.088 12.701 1.00 31.47	H
ATOM	3495	N SER	165	29.982 -15.254 12.466 1.00 8.75	H
ATOM	3496	H SER	165	29.417 -14.589 12.920 1.00 0.00	H
ATOM	3497	CA SER	165	30.168 -15.149 11.058 1.00 8.75	H
ATOM	3498	CB SER	165	29.572 -13.875 10.609 1.00 2.00	H
ATOM	3499	OG SER	165	30.545 -12.853 10.739 1.00 2.00	Н
MOTA	3500	HG SER	165	30.390 -12.167 10.089 1.00 0.00	Н
ATOM	3501	C SER	165	31.649 -15.110 10.715 1.00 8.75	Н
ATOM	3502		165	32.043 -15.230 9.525 1.00 2.00	H
ATOM	3503	N GLY	166	32.477 -14.887 11.740 1.00 12.45	Н
ATOM	3504		166	32.077 -14.794 12.597 1.00 0.00	Н
ATOM		CA GLY	166	33.901 -14.803 11.523 1.00 12.45	Н
ATOM	3506		166	34.241 -13.351 11.267 1.00 12.45	Н
ATOM	3507		166	35.399 -12.960 11.171 1.00 25.13	Н
ATOM	3508	N LEU	167	33.220 -12.526 11.159 1.00 22.17	Η
MOTA			167	32.309 -12.875 11.243 1.00 0.00	Н
ATOM	3510	CA LEU	167	33.465 -11.129 10.921 1.00 22.17	Н
ATOM		CB LEU	167	32.335 -10.540 10.097 1.00 3.26	H
MOTA		CG LEU	167	32.309 -10.918 8.618 1.00 3.26	Н
ATOM		CD1 LEU		31.235 -10.092 7.943 1.00 3.26	Н
MOTA		CD2 LEU		33.650 -10.710 7.913 1.00 3.26	Н
ATOM			167	33.634 -10.398 12.246 1.00 22.17	Н
MOTA	3516		167	33.304 -10.923 13.314 1.00 3.26	Н
ATOM	3517		168	34.144 -9.176 12.171 1.00 5.57	H
ATOM	3518		168		H
MOTA MOTA		CA TYR	168	34.427 -8.384 13.361 1.00 5.57	H.
ATOM		CG TYR	168 168	35.827 -7.812 13.271 1.00 21.09	Н
ATOM		CD1 TYR	168 168	36.893 -8.740 13.729 1.00 21.09	Н
ATOM		CE1 TYR	168	37.007 -9.077 15.073 1.00 21.09	Н
ATOM		CD2 TYR		37.976 -9.952 15.479 1.00 21.09	Н
ATOM		CE2 TYR	168	37.787 -9.302 12.820 1.00 21.09	Н
, , i Oivi	0323	JLL III	100	38.743 -10.165 13.230 1.00 21.09	Н

ATOM	3526 CZ TYR 168	38.831 -10.485 14.540 1.00 21.09	Н
ATOM	3527 OH TYR 168	39.774 -11.359 14.908 1.00 21.09	Н
ATOM	3528 HH TYR 168	39.460 -12.249 14.803 1.00 0.00	Н
ATOM	3529 C TYR 168	33.467 -7.230 13.502 1.00 5.57	Н
ATOM	3530 O TYR 168	32.837 -6.797 12.525 1.00 21.09	Н
ATOM	3531 N SER 169	33.379 -6.700 14.714 1.00 15.29	Н
ATOM	3532 H SER 169	33.931 -7.064 15.433 1.00 0.00	Н
MOTA	3533 CA SER 169	32.480 -5.597 14.978 1.00 15.29	Н
ATOM	3534 CB SER 169	31.118 -6.141 15.344 1.00 7.44	Н
ATOM	3535 OG SER 169	30.156 -5.715 14.420 1.00 7.44	Н
ATOM-	3536 HG SER 169	29.304 -5.823 14.846 1.00 0.00	Н
MOTA	3537 C SER 169	32.952 -4.775 16.137 1.00 15.29	Н
MOTA	3538 O SER 169	33.452 -5.297 17.123 1.00 7.44	Н
ATOM	3539 N LEU 170	32.834 -3.472 16.017 1.00 12.90	Н
ATOM	3540 H LEU 170	32.529 -3.055 15.174 1.00 0.00	Н
MOTA	3541 CA LEU 170	33.177 -2.664 17.152 1.00 12.90	Н
MOTA	3542 CB LEU 170	34.633 -2.239 17.099 1.00 5.71	Н
ATOM	3543 CG LEU 170	35.189 -1.080 16.294 1.00 5.71	Н
ATOM	3544 CD1 LEU 170	34.475 0.233 16.485 1.00 5.71	Н
ATOM	3545 CD2 LEU 170	36.642 -0.954 16.774 1.00 5.71	Н
MOTA	3546 C LEU 170	32.249 -1.477 17.372 1.00 12.90	Н
ATOM	3547 O LEU 170	31.380 -1.151 16.537 1.00 5.71	Н
ATOM	3548 N SER 171	32.399 -0.870 18.538 1.00 2.00	Н
MOTA	3549 H SER 171	33.052 -1.203 19.187 1.00 0.00	H
ATOM	3550 CA SER 171	31.611 0.286 18.852 1.00 2.00	Н
ATOM	3551 CB SER 171	30.778 0.026 20.079 1.00 2.00	Н
ATOM	3552 OG SER 171	29.422 0.014 19.747 1.00 2.00	Н
ATOM	3553 HG SER 171 3554 C SER 171	28.980 -0.701 20.199 1.00 0.00	H
ATOM	3554 C SER 171 3555 O SER 171	32.490 1.464 19.124 1.00 2.00 33.634 1.311 19.495 1.00 2.00	H
ATOM	3556 N SER 172	33.634 1.311 19.495 1.00 2.00 31.988 2.654 18.878 1.00 30.09	Н
ATOM	3557 H SER 172	31.119 2.752 18.424 1.00 0.00	H
ATOM	3558 CA SER 172	32.762 3.807 19.286 1.00 30.09	Н
ATOM	3559 CB SER 172	33.506 4.527 18.175 1.00 5.65	H
ATOM	3560 OG SER 172	34.258 5.560 18.796 1.00 5.65	H
ATOM	3561 HG SER 172	34.610 5.225 19.623 1.00 0.00	H
ATOM	3562 C SER 172	31.719 4.707 19.880 1.00 30.09	H
ATOM	3563 O SER 172	30.680 4.973 19.271 1.00 5.65	Н
ATOM	3564 N VAL 173	32.002 5.174 21.085 1.00 9.72	Н
ATOM	3565 H VAL 173	32.863 4.972 21.496 1.00 0.00	Н
MOTA	3566 CA VAL 173	31.050 5.995 21.809 1.00 9.72	Н
MOTA	3567 CB VAL 173	30.496 5.114 22.929 1.00 13.58	Н
ATOM	3568 CG1 VAL 173	30.494 5.880 24.210 1.00 13.58	Н
ATOM	3569 CG2 VAL 173	29.097 4.544 22.534 1.00 13.58	Н
ATOM	3570 C VAL 173	31.663 7.250 22.389 1.00 9.72	H
ATOM	3571 O VAL 173	32.864 7.310 22.616 1.00 13.58	Н
ATOM	3572 N VAL 174	30.848 8.264 22.630 1.00 14.53	Н
ATOM	3573 H VAL 174	29.903 8.212 22.422 1.00 0.00	Н
ATOM	3574 CA VAL 174	31.380 9.488 23.249 1.00 14.53	Н
MOTA	3575 CB VAL 174	31.959 10.493 22.216 1.00 7.83	Н
MOTA	3576 CG1 VAL 174	30.804 11.147 21.451 1.00 7.83	Н
ATOM ATOM	3577 CG2 VAL 174 3578 C VAL 174	32.822 11.532 22.903 1.00 7.83	H
ATOM	3579 O VAL 174	30.280 10.175 24.011 1.00 14.53	H
ATOM	3580 N THR 175	29.116 9.986 23.697 1.00 7.83	Н
ATOM	3581 H THR 175	30.663 10.954 25.019 1.00 7.10	Н
, OW	2001 11 1111 113	31.625 11.041 25.210 1.00 0.00	Н

ATOM	M 3582 CA THR 175	00 747 44 000 00 000 4 00 00 00
		,,,,
ATOM		11,000 21,000 11
ATON	1 3584 OG1 THR 17	5 31.195 10.908 27.664 1.00 24.95 H
ATOM	1 3585 HG1 THR 17	5 31.618 11.475 28.325 1.00 0.00 H
ATON		
ATOM	1 3587 C THR 175	30.001 13.160 25.586 1.00 7.10 H
ATOM	1 3588 O THR 175	31.162 13.546 25.431 1.00 24.95 H
ATOM	1 3589 N VAL 176	28.942 13.965 25.571 1.00 26.28 H
ATOM		20.002 10.500 20.011 1.00 20.20 11
		28.069 13.564 25.730 1.00 0.00 H
ATOM		1100 20,20
ATOM	1 3592 CB VAL 176	28.802 15.698 23.799 1.00 7.07 H
ATOM	1 3593 CG1 VAL 176	
ATOM		
ATOM		5 27.366 15.572 23.426 1.00 7.07 H
		27.814 16.072 26.093 1.00 26.28 H
ATOM		26.926 15.391 26.632 1.00 7.07 H
ATOM	3597 N PRO 177	27.810 17.415 26.173 1.00 13.42 H
ATOM	3598 CD PRO 177	
ATOM		00 - 10 1 - 1 - 1 - 1
ATOM		
ATOM		
ATOM	3602 C PRO 177	25.491 18.129 25.997 1.00 13.42 H
ATOM	3603 O PRO 177	25.537 18.353 24.793 1.00 7.68 H
ATOM		0.4.000 10.000 00.000
ATOM		24.350 17.902 26.607 1.00 2.13 H
		24.346 17.722 27.567 1.00 0.00 H
ATOM		23.179 17.908 25.794 1.00 2.13 H
ATOM		22.092 17.281 26.575 1.00 2.36 H
ATOM	3608 OG SER 178	22.565 17.349 27.864 1.00 2.36 H
ATOM		00.050 /0.050 00.000
ATOM		22.858 18.239 28.053 1.00 0.00 H
ATOM		22.814 19.343 25.412 1.00 2.13 H
		22.125 19.563 24.442 1.00 2.36 H
ATOM		23.278 20.316 26.166 1.00 3.15 H
ATOM		23.847 20.111 26.931 1.00 0.00 H
ATOM	3614 CA SER 179	22.943 21.695 25.861 1.00 3.15 H
MOTA		00 707 00 000 00
ATOM	3616 OG SER 179	
ATOM		24.895 22.161 27.296 1.00 10.96 H
		24.991 21.236 27.034 1.00 0.00 H
ATOM	3618 C SER 179	23.237 22.013 24.426 1.00 3.15 H
ATOM	3619 O SER 179	22.474 22.713 23.791 1.00 10.96 H
ATOM	3620 N SER 180	24.334 21.475 23.892 1.00 12.05 H
MOTA	3621 H SER 180	24.920 20.887 24.428 1.00 0.00 H
MOTA	3622 CA SER 180	04 070 04 740 00 544 4 00 40
ATOM	3623 CB SER 180	00 455 00 400 00 000
	*** · * * *	26.155 22.102 22.386 1.00 32.80 H
MOTA	3624 OG SER 180	26.928 21.533 23.420 1.00 32.80 H
ATOM	3625 HG SER 180	27.573 22.166 23.739 1.00 0.00 H
MOTA	3626 C SER 180	24.320 20.647 21.518 1.00 12.05 H
MOTA	3627 O SER 180	0.4.777 00.000 00.000 0.000
MOTA	3628 N LEU 181	00 000
MOTA		
		23.210 19.615 22.833 1.00 0.00 H
MOTA	3630 CA LEU 181	23.185 18.653 20.924 1.00 11.48 H
MOTA	3631 CB LEU 181	22.128 17.719 21.460 1.00 24.85 H
MOTA	3632 CG LEU 181	22.790 16.657 22.301 1.00 24.85 H
MOTA	3633 CD1 LEU 181	04 700 40 000 00 100
MOTA	3634 CD2 LEU 181	00 455 45 00 4 5 4 5 4 5 4 5 4 5 4 5 5 5 5
MOTA	3635 C LEU 181	23.455 15.694 21.397 1.00 24.85 H
		22.608 19.511 19.852 1.00 11.48 H
MOTA	3636 O LEU 181	22.077 20.583 20.169 1.00 24.85 H
MOTA	3637 N GLY 182	22.710 19.092 18.592 1.00 37.12 H
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ATO14	0000	11 CIV 400	00 400 19 217 19 402 4 00 0 00	Н
ATOM	3638		23.106 18.217 18.403 1.00 0.00	
ATOM	3639	CA GLY 182	22.211 19.959 17.528 1.00 37.12	Н
MOTA	3640	C GLY 182	22,778 21.388 17.689 1.00 37.12	Н
			22.117 22.293 18.160 1.00 7.85	Н
MOTA	3641	-		
ATOM	3642	N THR 183	24.042 21.568 17.314 1.00 27.40	Н
ATOM	3643	H THR 183	24.526 20.798 16.969 1.00 0.00	Н
ATOM		CA THR 183	24.749 22.844 17.376 1.00 27.40	Н
			24.452 23.547 18.696 1.00 14.59	H
ATOM		CB THR 183		
ATOM		OG1 THR 183		Н
ATOM	3647	HG1 THR 183	22.987 24.813 18.188 1.00 0.00	Н
ATOM	3648	CG2 THR 183	25,693 23,710 19,560 1,00 14,59	Н
ATOM	3649	C THR 183	26.217 22.486 17.231 1.00 27.40	Н
		-		
MOTA	3650	O THR 183	26.991 23.111 16.547 1.00 14.59	Н
ATOM	3651	N GLN 184	26.593 21.422 17.884 1.00 16.35	Н
ATOM	3652	H GLN 184	25.960 20.931 18.446 1.00 0.00	Н
ATOM		CA GLN 184	27,941 20.971 17.773 1.00 16.35	Н
			28.424 20.524 19.127 1.00 17.09	Н
ATOM	3654			
ATOM		CG GLN 184	28.677 21.708 20.021 1.00 17.09	Н
ATOM	3656	CD GLN 184	29.303 22.860 19.248 1.00 17.09	Н
MOTA	3657	OE1 GLN 184	30,536 22,990 19,165 1,00 17,09	H
ATOM		NE2 GLN 184	28.467 23.697 18.670 1.00 17.09	Н
MOTA		HE21 GLN 184		Н
ATOM	3660	HE22 GLN 184		Н
ATOM	3661	C GLN 184	27.729 19.828 16.839 1.00 16.35	Н
MOTA	3662	O GLN 184	26.630 19.324 16.750 1.00 17.09	Н
ATOM	3663	N THR 185	28.738 19.443 16.084 1.00 24.08	H
				Н
MOTA	3664		29.617 19.894 16.117 1.00 0.00	
ATOM		CA THR 185	28.517 18.330 15.193 1.00 24.08	H
ATOM	3666	CB THR 185	28.299 18.796 13.702 1.00 33.38	Н
ATOM	3667	OG1 THR 185	29.410 19.554 13.240 1.00 33.38	Н
ATOM	3668	HG1 THR 185	29.077 20.307 12.741 1.00 0.00	Н
ATOM		CG2 THR 185	27.017 19.653 13.585 1.00 33.38	Н
ATOM	3670	C THR 185	29.561 17:238 15.332 1.00 24.08	н.
ATOM	3671	O THR 185	30.757 17.449 15.396 1.00 33.38	Н
ATOM		N TYR 186	29.056 16.033 15.434 1.00 21.00	Н
ATOM	3673	H TYR 186	28.089 15.911 15.374 1.00 0.00	Н
ATOM	3674	CA TYR 186	29.906 14.896 15.632 1.00 21.00	Н
ATOM	3675	CB TYR 186	29.474 14.251 16.928 1.00 8.09	Н
ATOM		CG TYR 186	29.387 15.238 18.081 1.00 8.09	Н
ATOM				Н
ATOM		CE1 TYR 186	30.431 16.340 19.925 1.00 8.09	Н
ATOM		CD2 TYR 186	28.188 15.846 18.415 1.00 8.09	Н
MOTA	3680	CE2 TYR 186	28.102 16.700 19.516 1.00 8.09	H
MOTA		CZ TYR 186	29.232 16.935 20.284 1.00 8.09	Н
ATOM		OH TYR 186	29.162 17.626 21.484 1.00 8.09	Н
ATOM		HH TYR 186	28.244 17.727 21.752 1.00 0.00	Н
MOTA		C TYR 186	29.869 13.923 14.466 1.00 21.00	Н
ATOM	3685		28.835 13.421 14.034 1.00 8.09	Н
MOTA	3686	N ILE 187	31.049 13.696 13.949 1.00 18.79	Н
ATOM	3687			Н
ATOM		CA ILE 187	31.272 12.820 12.834 1.00 18.79	
ATOM		CB ILE 187	31.962 13.593 11.664 1.00 11.04	Н
ATOM		CG2 ILE 187	32.271 12.622 10.489 1.00 11.04	Н
ATOM		CG1 ILE 187	31.147 14.869 11.330 1.00 11.04	Н
ATOM		CD1 ILE 187	30.815 15.082 9.837 1.00 11.04	Н
ATOM	3693	C ILE 187	32.287 11.815 13.318 1.00 18.79	Н

ATOM	3694 O ILE 187 33.293 12.212 13.868 1.00 11.04 H	
ATOM	3695 N CYS 188 32.031 10.532 13.125 1.00 13.71 H	
ATOM	1100 1011	
ATOM		
ATOM	3701 SG CYS 188 31.260 7.477 12.858 1.00 3.53 H	
ATOM	3702 N ASN 189 35.099 8.990 12.353 1.00 22.24 H	
ATOM	3703 H ASN 189 35.467 9.041 13.219 1.00 0.00 H	
ATOM	3704 CA ASN 189 36.011 8.674 11.254 1.00 22.24 H	
ATOM	3705 CB ASN 189 37.162 9.631 11.327 1.00 10.05 H	
ATOM	3706 CG ASN 189 36.685 11.031 11.285 1.00 10.05 H	
ATOM	3707 OD1 ASN 189 37.041 11.869 12.116 1.00 10.05 H	
ATOM	3708 ND2 ASN 189 35.829 11.304 10.315 1.00 10.05 H	
ATOM	3709 HD21 ASN 189 34.871 11.134 10.467 1.00 0.00 H	
ATOM	3710 HD22 ASN 189 36.171 11.672 9.483 1.00 0.00 H	
ATOM	3711 C ASN 189 36.474 7.237 11.366 1.00 22.24 H	
ATOM	3712 O ASN 189 37.497 6.893 12.018 1.00 10.05 H	
ATOM	3713 N VAL 190 35.672 6.402 10.723 1.00 16.57 H	
ATOM	3714 H VAL 190 34.915 6.778 10.239 1.00 0.00 H	
ATOM	3715 CA VAL 190 35.873 4.980 10.697 1.00 16.57 H	
ATOM	3716 CB VAL 190 34.582 4.320 10.274 1.00 18.37 H	
MOTA	3717 CG1 VAL 190 34.731 2.823 10.247 1.00 18.37 H	
MOTA	3718 CG2 VAL 190 33.498 4.765 11.192 1.00 18.37 H	
ATOM	3719 C VAL 190 36.922 4.706 9.672 1.00 16.57 H	
ATOM	3720 O VAL 190 36.787 5.122 8.528 1.00 18.37 H	
ATOM	3721 N ASN 191 37.980 4.017 10.038 1.00 20.29 H	
MOTA	3722 H ASN 191 38.103 3.706 10.938 1.00 0.00 H	
ATOM	3723 CA ASN 191 38.978 3.727 9.021 1.00 20.29 H	
ATOM	3724 CB ASN 191 40.213 4.563 9.252 1.00 18.96 H	
ATOM	3725 CG ASN 191 41.202 4.465 8.119 1.00 18.96 H	
ATOM	3726 OD1 ASN 191 41.912 5.426 7.820 1.00 18.96 H	
ATOM	3727 ND2 ASN 191 41.262 3.313 7.477 1.00 18.96 H	
ATOM	3728 HD21 ASN 191 40.747 3.237 6.632 1.00 0.00 H	
ATOM	3729 HD22 ASN 191 41.799 2.594 7.843 1.00 0.00 H	
MOTA	3730 C ASN 191 39.324 2.233 9.040 1.00 20.29 H	
ATOM	3731 O ASN 191 39.557 1.642 10.105 1.00 18.96 H	
ATOM	3732 N HIS 192 39.313 1.603 7.866 1.00 8.03 H	
ATOM	3733 H HIS 192 39.072 2.094 7.069 1.00 0.00 H	
ATOM	3734 CA HIS 192 39.642 0.184 7.754 1.00 8.03 H	
MOTA	3735 CB HIS 192 38.380 -0.627 7.501 1.00 16.14 H	
ATOM	3736 CG HIS 192 38.633 -2.099 7.453 1.00 16.14 H	
ATOM	3737 CD2 HIS 192 38.241 -3.036 6.559 1.00 16.14 H	
MOTA	3738 ND1 HIS 192 39.477 -2.739 8.341 1.00 16.14 H	
MOTA	3739 HD1 HIS 192 39.916 -2.336 9.120 1.00 0.00 H	
MOTA	3740 CE1 HIS 192 39.595 -4.003 7.990 1.00 16.14 H	
ATOM ATOM	3741 NE2 HIS 192 38.857 -4.208 6.914 1.00 16.14 H 3742 HE2 HIS 192 38.752 -5.052 6.425 1.00 0.00 H	
ATOM		
ATOM	2744 2 192	
ATOM	2745 N. 1340 400	
ATOM	2740 11 13/0 400	
ATOM	2747 CA 17/0 400	
ATOM	2749 OD 1349 400	
ATOM	2740 CC IVC 400	
	3749 CG LYS 193 45.049 1.523 6.076 1.00 33.97 H	

ATOM	3750 CD LYS 193	44.201 2.746 6.543 1.00 33.97	Н
ATOM	3751 CE LYS 193	45.031 3.886 7.143 1.00 33.97	Н
ATOM	3752 NZ LYS 193	46.418 3.490 7.576 1.00 33.97	Н
ATOM	3753 HZ1 LYS 193	47.022 3.276 6.748 1.00 0.00	Н
ATOM	3754 HZ2 LYS 193	46.364 2.648 8.175 1.00 0.00	H
ATOM	3755 HZ3 LYS 193	46.861 4.269 8.111 1.00 0.00	H
	3756 C LYS 193	42.838 -1.146 4.805 1.00 15.46	H
ATOM		42.870 -0.999 3.584 1.00 33.97	H
ATOM		42.704 -2.362 5.373 1.00 23.26	H
MOTA	3758 N PRO 194	42.588 -2.647 6.815 1.00 23.29	H
MOTA	3759 CD PRO 194		Н
ATOM	3760 CA PRO 194		Н
MOTA	3761 CB PRO 194		
ATOM	3762 CG PRO 194	43.036 -4.068 6.891 1.00 23.29	H
ATOM	3763 C PRO 194	41.610 -3.691 3.475 1.00 23.26	
ATOM	3764 O PRO 194	41.696 -4.598 2.630 1.00 23.29	Н
ATOM	3765 N SER 195	40.623 -2.799 3.477 1.00 21.27	H
ATOM	3766 H SER 195	40.585 -2.105 4.162 1.00 0.00	Η
MOTA	3767 CA SER 195	39.587 -2.837 2.458 1.00 21.27	Н
ATOM	3768 CB SER 195	38.249 -3.355 3.054 1.00 49.13	H
MOTA	3769 OG SER 195	37.626 -2.470 3.988 1.00 49.13	Н
ATOM	3770 HG SER 195	37.592 -1.581 3.620 1.00 0.00	Н
ATOM	3771 C SER 195	39.463 -1.407 1.979 1.00 21.27	Н
ATOM	3772 O SER 195	38.444 -1.008 1.390 1.00 49.13	Н
ATOM	3773 N ASN 196	40.528 -0.643 2.237 1.00 15.71	Н
MOTA	3774 H ASN 196	41.284 -1.061 2.676 1.00 0.00	Н
MOTA	3775 CA ASN 196	40.586 0.771 1.894 1.00 15.71	Н
ATOM	3776 CB ASN 196	40.779 1.017 0.381 1.00 46.35	Н
ATOM	3777 CG ASN 196	41.639 -0.037 -0.309 1.00 46,35	Н
ATOM	3778 OD1 ASN 196	42.848 -0.159 -0.042 1.00 46.35	Н
MOTA	3779 ND2 ASN 196	41.020 -0.790 -1.234 1.00 46.35	Н
ATOM	3780 HD21 ASN 196	41.364 -0.762 -2.146 1.00 0.00	Н
ATOM	3781 HD22 ASN 196	40.251 -1.335 -0.948 1.00 0.00	Н
MOTA	3782 C ASN 196	39.263 1.426 2.343 1.00 15.71	Н
ATOM	3783 O ASN 196	38.680 2.231 1.622 1.00 46.35	Н
ATOM	3784 N THR 197	38.773 1.081 3.526 1.00 18.46	Н
ATOM	3785 H THR 197	39.237 0.419 4.085 1.00 0.00	Н
ATOM	3786 CA THR 197	37.546 1.694 3.970 1.00 18.46	H
ATOM	3787 CB THR 197	36.655 0.700 4.780 1.00 34.72	Н
ATOM	3788 OG1 THR 197	35.786 0.002 3.869 1.00 34.72	Н
ATOM	3789 HG1 THR 197	35.756 -0.932 4.096 1.00 0.00	Н
ATOM	3790 CG2 THR 197	35.772 1.466 5.837 1.00 34.72	Н
ATOM	3791 C THR 197	37.760 2.978 4.769 1.00 18.46	Н
ATOM	3792 O THR 197	38.433 3.015 5.792 1.00 34.72	Н
ATOM	3793 N LYS 198	37.167 4.035 4.239 1.00 11.62	Н
ATOM	3794 H LYS 198	36.683 3.935 3.390 1.00 0.00	H
ATOM	3795 CA LYS 198	37.177 5.345 4.845 1.00 11.62	Н
ATOM	3796 CB LYS 198	37.996 6.326 4.030 1.00 23.98	Н
ATOM	3797 CG LYS 198	39.341 6.631 4.644 1.00 23.98	Н
ATOM	3798 CD LYS 198	39.611 8.124 4.557 1.00 23.98	Н
ATOM	3799 CE LYS 198	39.059 8.710 3.231 1.00 23.98	Н
ATOM	3800 NZ LYS 198	39.726 8.166 1.947 1.00 23.98	Н
ATOM	3801 HZ1 LYS 198	38.972 7.869 1.304 1.00 0.00	Н
ATOM	3802 HZ2 LYS 198	40.338 7.361 2.185 1.00 0.00	Н
ATOM	3803 HZ3 LYS 198	40.288 8.924 1.508 1.00 0.00	Н
ATOM	3804 C LYS 198	35.722 5.742 4.818 1.00 11.62	Н
ATOM	3805 O LYS 198	35.053 5.657 3.802 1.00 23.98	Н

ATOM	3806	N VAL	199	35.199 6.132 5.955 1.00 16.76	Н
ATOM	3807		199	35.715 6.151 6.784 1.00 0.00	H.
ATOM	3808	• • • • • • • • • • • • • • • • • • • •	199	33.836 6.545 5.952 1.00 16.76	
ATOM	3809		199	32.931 5.316 6.100 1.00 12.78	Н
ATOM		CG1 VAL	199	31.665 5.621 6.881 1.00 12.78	H
ATOM		CG2 VAL	199	32.563 4.838 4.714 1.00 12.78	H
ATOM	3812		199	33.615 7.578 7.024 1.00 16.76	Н
ATOM	3813		199	34.332 7.627 8.026 1.00 12.78	H
ATOM	3814		200	32.668 8.467 6.757 1.00 26.14	H
ATOM	3815		200	32.212 8.451 5.886 1.00 0.00	Н
ATOM		CA ASP	200	32.294 9.465 7.734 1.00 26.14	Н
ATOM		CB ASP	200	32.702 10.837 7.270 1.00 39.01	Н
ATOM		CG ASP	200	34.169 10.955 7.202 1.00 39.01	Н
ATOM	3819	OD1 ASP	200	34.816 10.155 7.899 1.00 39.01	Н
ATOM	3820	OD2 ASP	200	34.699 11.811 6.467 1.00 39.01	Н
ATOM	3821	C ASP :	200	30.795 9.366 7.965 1.00 26.14	Н
ATOM	3822	O ASP	200	29.964 9.297 7.036 1.00 39.01	Н
ATOM	3823	N LYS 2	201	30.447 9.252 9.225 1.00 7.05	Н
MOTA	3824	H LYS 2	201	31.133 9.199 9.917 1.00 0.00	Н
ATOM			201	29.051 9.216 9.550 1.00 7.05	Н
ATOM		CB LYS	201	28.669 7.886 10.165 1.00 23.61	Н
ATOM		CG LYS	201	27.176 7.630 10.105 1.00 23.61	Н
MOTA		CD LYS	201	26.648 7.558 8.662 1.00 23.61	Н
ATOM	3829		201	25.750 8.763 8.328 1.00 23.61	Н
ATOM			201	25.684 9.172 6.870 1.00 23.61	Н
ATOM	3831	HZ1 LYS	201	24.762 9.610 6.690 1.00 0.00	Н
MOTA		HZ2 LYS	201	25.806 8.338 6.251 1.00 0.00	Н
ATOM		HZ3 LYS	201	26.435 9.871 6.661 1.00 0.00	Н
ATOM	3834		201	28.872 10.356 10.517 1.00 7.05	H.
ATOM ATOM	3835		201	29.647 10.549 11.456 1.00 23.61	Н
ATOM	3836 3837		202 202	27.886 11.165 10.200 1.00 13.55 27.370 10.985 9.384 1.00 0.00	H
ATOM			202	27.370 10.985 9.384 1.00 0.00 27.549 12.293 11.024 1.00 13.55	H
ATOM			202	27.120 13.488 10.152 1.00 16.43	H
ATOM			202	25.773 14.097 10.530 1.00 16.43	Н
ATOM	3841		202	25.895 15.455 11.247 1.00 16.43	Н
ATOM			202	24.856 16.456 10.717 1.00 16.43	H
ATOM	3843		202	25.386 17.850 10.407 1.00 16.43	Н
ATOM	3844		202	26.403 17.809 10.178 1.00 0.00	H
ATOM	3845	HZ2 LYS	202	25.260 18.412 11.274 1.00 0.00	Н
ATOM	3846	HZ3 LYS	202	24.854 18.303 9.641 1.00 0.00	Н
ATOM	3847	C LYS 2	202	26.397 11.702 11.789 1.00 13.55	Н
ATOM	3848		202	25.537 11.084 11.206 1.00 16.43	Н
ATOM	3849		203	26.409 11.850 13.103 1.00 4.68	Н
ATOM	3850		203	27.153 12.341 13.516 1.00 0.00	Н
ATOM			203	25.348 11.325 13.931 1.00 4.68	Н
ATOM			203	25.952 10.278 14.918 1.00 15.66	Н
ATOM		CG1 VAL		27.413 10.225 14.753 1.00 15.66	Н
MOTA		CG2 VAL		25.567 10.530 16.344 1.00 15.66	Н
ATOM ATOM			203	24.622 12.462 14.632 1.00 4.68	Η.
ATOM	3857		203	25.264 13.259 15.284 1.00 15.66	Н
ATOM	3858		204 204	23.299 12.589 14.462 1.00 25.05	H
ATOM			204 204	22.817 11.964 13.878 1.00 0.00	Н
ATOM			204 204	22.562 13.650 15.170 1.00 25.05 22.424 14.886 14.293 1.00 33.92	Н
ATOM			204	21.425 14.771 13.155 1.00 33.92	H
			-	, ,0.,00 1.00 00.02	

ATOM	3863	CD GLU	204	22.119 14.391 11.879 1.00 33.92	н
ATOM				4 23.250 13.854 11.994 1.00 33.92	
		OE1 GLU			
ATOM		OE2 GLU			
MOTA		C GLU	204	21.181 13.258 15.718 1.00 25.05	H
MOTA	3866		204	20.709 12.202 15.265 1.00 33.92	H.
ATOM		OT GLU	204		
ATOM		CB ASP	1	60.965 15.915 68.832 1.00 28.46	E
MOTA		CG ASP	1	61.088 15.437 67.374 1.00 28.46	Ε
ATOM		OD1 ASP		60.727 16.220 66.471 1.00 28.46	Ε
MOTA		OD2 ASP		61.524 14.300 67.116 1.00 28.46	E
MOTA	3872	C ASP	1	61.821 15.815 71.176 1.00 23.13	E
ATOM	3873	O ASP	1	62.160 15.229 72.216 1.00 28.46	Е
MOTA		HT1 ASP	1	60.384 13.579 69.426 1.00 0.00	Ε
ATOM	3875	HT2 ASP	1	61.183 13.430 70.927 1.00 0.00	Ε
MOTA	3876	N ASP	1	61.293 13.679 69.923 1.00 23.13	E
MOTA	3877	HT3 ASP	1	61.975 13.027 69.488 1.00 0.00	E
MOTA	3878	CA ASP	1	61.822 15.106 69.806 1.00 23.13	E
ATOM	3879	N ILE	2	61.471 17.081 71.224 1.00 20.65	Ε
ATOM	3880	H ILE			Ξ
ATOM	3881	CA ILE	2	61.433 17.672 72.548 1.00 20.65	E
ATOM	3882	CB ILE	2	61.769 19.148 72.493 1.00 16.48	E
ATOM	3883	CG2 ILE		61.613 19.758 73.844 1.00 16.48	E
MOTA	3884	CG1 ILE	2	63.184 19.300 71.973 1.00 16.48	E
ATOM		CD1 ILE	2	64.009 20.326 72.647 1.00 16.48	Ē
ATOM	3886	C ILE			E
ATOM	3887		2	59.040 17.495 72.221 1.00 16.48	Ē
ATOM	3888		3	59.800 17.073 74.288 1.00 25.33	E
ATOM		H VAL	3	60.549 16.882 74.892 1.00 0.00	Ē
ATOM		CA VAL	3	58.422 16.928 74.717 1.00 25.33	Ē
ATOM		CB VAL	3	58.161 15.525 75.311 1.00 3.57	Ē
ATOM		CG1 VAL	3	57.135 15.590 76.434 1.00 3.57	E
ATOM		CG2 VAL	3	57.694 14.597 74.193 1.00 3.57	Ē
ATOM	3894		3	58.140 18.010 75.718 1.00 25.33	E
ATOM	3895		3	58.800 18.069 76.734 1.00 3.57	Ē
ATOM	3896		4	57.191 18.886 75.401 1.00 20.56	Ē
ATOM	3897		4		Ē
ATOM		CA LEU	4	56.810 19.982 76.310 1.00 20.56	E
ATOM		CB LEU	4		Ē
ATOM		CG LEU	4	57.707 21.798 74.697 1.00 15.68	Ē
ATOM		CD1 LEU	4	57.579 23.263 74.343 1.00 15.68	Ē
ATOM		CD2 LEU		58.975 21.539 75.470 1.00 15.68	Ē
ATOM			4	55.568 19.575 77.080 1.00 20.56	E
ATOM	3904		4	54.511 19.337 76.501 1.00 15.68	E
ATOM	3905		5	55.700 19.492 78.395 1.00 13.02	Ē
ATOM	3906		5	56.551 19.705 78.790 1.00 0.00	Ē
ATOM		CA THR	5	54.568 19.090 79.221 1.00 13.02	Ē
ATOM		CB THR	5	54.998 18.016 80.220 1.00 20.72	Ē
ATOM		OG1 THR	5	55.017 16.744 79.571 1.00 20.72	E
ATOM		HG1 THR	5	54.864 16.065 80.236 1.00 0.00	E
ATOM		CG2 THR	5	54.050 17.994 81.401 1.00 20.72	Ē
ATOM	3912		5	53.980 20.269 79.991 1.00 13.02	E
ATOM		O THR	5	54.655 20.846 80.810 1.00 20.72	E
ATOM	3914		6	52.733 20.640 79.728 1.00 15.56	Ē
ATOM	3915		6	52.231 20.162 79.047 1.00 0.00	E
ATOM		CA GLN	6	52.108 21.752 80.472 1.00 15.56	E
ATOM		CB GLN	6	51.139 22.564 79.584 1.00 17.17	E
	5017	-5 -11	9	01.109 22.504 /9.504 1.00 [/.]/	

ATOM	301	R (-/	G GLN	1 6	51,818 23,326 78,451 1,00 17,17	_
ATOM		-	D GLN	•	51.818 23.326 78.451 1.00 17.17 51.077 24.570 77.971 1.00 17.17	E
ATOM			E1 GLI			E.
ATOM			E1 GLI E2 GLI		51.592 25.333 77.147 1.00 17.17	
ATOM			21 GL		49.884 24.788 78.487 1.00 17.17	E
ATOM			21 GL		· · · · · · · · · · · · · · · · · · ·	E
ATOM			GLN	6	111111 1111111 1111111	Ę
ATOM			GLN	6	51.343 21.228 81.704 1.00 15.56 51.083 20.017 81.867 1.00 17.17	E
ATOM			SER	7		E
ATOM			SER	7	50.993 22.142 82.592 1.00 32.66	E
ATOM			SER SER		51.231 23.074 82.437 1.00 0.00	E_
ATOM			SER		50.272 21.774 83.786 1.00 32.66 51.100 20.826 84.625 1.00 17.92	E
ATOM			3 SER			E
ATOM			SER		51.251 21.378 85.911 1.00 17.92 51.437 20.686 86.554 1.00 0.00	E
ATOM			SER	7	50.041 23.064 84.539 1.00 32.66	E
ATOM			SER	7	50.910 23.939 84.564 1.00 17.92	Ë
ATOM			PRO	8	48.850 23.216 85.146 1.00 34.86	E
ATOM			PRO		48.408 24.430 85.865 1.00 12.10	
ATOM			PRO		47.780 22.214 85.118 1.00 34.86	E
ATOM			PRO		46.858 22.691 86.231 1.00 12.10	E
ATOM			PRC		46.929 24.177 86.091 1.00 12.10	E
ATOM	3939		PRO	8	47.108 22.302 83.757 1.00 34.86	E
ATOM	3940		PRO	8	47.451 23.184 82.984 1.00 12.10	E
ATOM	3941		ALA	9	46.162 21.406 83.479 1.00 11.12	E
ATOM	3942		ALA	9	45.952 20.717 84.141 1.00 0.00	E
ATOM			ALA	9	45.403 21.404 82.212 1.00 11.12	E
ATOM			ALA	9	44.705 20.106 82.027 1.00 25.67	Ē
ATOM	3945	С	ALA	9	44.373 22.551 82.216 1.00 11.12	E
ATOM	3946	0	ALA	9	44.547 23.556 81.520 1.00 25.67	Ē
ATOM	3947	Ν	THR	10	43.291 22.418 82.977 1.00 2.27	Ē
ATOM	3948	Н	THR	10	43.131 21.591 83.477 1.00 0.00	Ē
ATOM	3949		THR	10	42.362 23.526 83.042 1.00 2.27	Ē
ATOM	3950	CB	THR	10	40.931 23.058 83.100 1.00 32.53	E
ATOM	3951		31 THE		40.519 22.943 84.479 1.00 32.53	E
ATOM			1 THR		39.676 23.377 84.621 1.00 0.00	Ε
ATOM			2 THR	10	40.798 21.701 82.401 1.00 32.53	E
MOTA	3954	С	THR	10	42.738 24.081 84.379 1.00 2.27	Ε
ATOM	3955	0	THR	10	43.168 23.317 85.244 1.00 32.53	E
ATOM	3956	N	LEU	11	42.612 25.407 84.547 1.00 11.42	E
ATOM			LEU	11	42.302 25.953 83.802 1.00 0.00	E
MOTA			LEU		42.899 26.084 85.814 1.00 11.42	Ε
MOTA			LEU	11	44.304 26.655 85.808 1.00 11.20	Ε
MOTA			LEU	11	44.860 27.991 85.303 1.00 11.20	Ε
ATOM ATOM			1 LEU	11	43.816 28.890 84.842 1.00 11.20	Ε
ATOM	3963		2 LEU	11	45.668 28.672 86.423 1.00 11.20	E
ATOM	3964		LEU	11 11	41.849 27.158 86.074 1.00 11.42	E
ATOM	3965		SER		41.640 28.025 85.244 1.00 11.20	E
ATOM	3966		SER	12 12	41.160 27.101 87.214 1.00 30.12	E
ATOM			SER	12	41.355 26.408 87.865 1.00 0.00	E
ATOM	3968			12	40.091 28.082 87.497 1.00 30.12 38.891 27.391 88.153 1.00 26.13	E
ATOM			SER	12	37.700 28.097 87.892 1.00 26.13	E
ATOM			SER	12	37.530 28.133 86.953 1.00 0.00	E
ATOM			SER	12	40.495 29.229 88.371 1.00 30.12	E
MOTA	3972		SER	12	40.946 29.039 89.466 1.00 26.13	E
ATOM	3973			13	10.000 00.100	E
					00,0 00,1 000,10 04,000 0,00	<u></u>

ATOM	3974 H ALA	13	39.816 30.508 87.022 1.00 0.00	Е
ATOM	3975 CA ALA		40.614 31.641 88.616 1.00 8.50	E
ATOM				
	3976 CB ALA		42.048 32.100 88.174 1.00 22.07	E
MOTA	3977 C ALA	13	39.590 32.769 88.330 1.00 8.50	Ē
MOTA	3978 O ALA	13	39.098 32.900 87.219 1.00 22.07	E
MOTA	3979 N SER	14	39.263 33.590 89.314 1.00 8.10	E
ATOM	3980 H SER	14	39.637 33.450 90.210 1.00 0.00	E
ATOM	3981 CA SER		38.330 34.670 89.052 1.00 8.10	E
ATOM	3982 CB SER		37.427 34.915 90.256 1.00 17.07	Ε
MOTA	3983 OG SEF		38.204 35.109 91.423 1.00 17.07	Ε
ATOM	3984 HG SEF		37.779 35.786 91.975 1.00 0.00	Ε
MOTA	3985 C SER	14	39.214 35.870 88.810 1.00 8.10	Ε
MOTA	3986 O SER	14	40.402 35.848 89.136 1.00 17.07	Ε
MOTA	3987 N PRO	15	38.650 36.962 88.280 1.00 18.70	Ε
MOTA	3988 CD PRC	15	37.265 37.257 87.911 1.00 14.41	Ε
MOTA	3989 CA PRO	15	39.514 38.107 88.041 1.00 18.70	Ε
MOTA	3990 CB PRC	15	38.561 39.179 87.545 1.00 14.41	Ε
MOTA	3991 CG PRC	15	37.429 38.451 87.017 1.00 14.41	Ε
MOTA	3992 C PRO	15	40.248 38.536 89.286 1.00 18.70	Ε
MOTA	3993 O PRO	15	39.889 38.167 90.424 1.00 14.41	Ε
MOTA	3994 N GLY	16	41.287 39.337 89.068 1.00 33.55	Ε
MOTA	3995 H GLY	16	41.520 39.568 88.144 1.00 0.00	Ε
ATOM	3996 CA GLY	16	42.070 39.859 90.171 1.00 33.55	E
MOTA	3997 C GLY	16	43.054 38.837 90.665 1.00 33.55	Ε
MOTA	3998 O GLY	16	44.215 39.156 90.882 1.00 27.69	Ε
MOTA	3999 N GLU	17	42.614 37.595 90.823 1.00 27.06	E
MOTA	4000 H GLU	17	41.685 37.358 90.610 1.00 0.00	Ε
ATOM	4001 CA GLU	17	43.522 36.578 91.311 1.00 27.06	Ε
MOTA	4002 CB GLU		42.879 35.183 91.211 1.00 39.21	Ē
MOTA	4003 CG GLU	17	42.144 34.741 92.468 1.00 39.21	E
ATOM	4004 CD GLU	17	40.700 35.274 92.524 1.00 39.21	Ē
ATOM	4005 OE1 GLU	J 17	39.827 34.613 93.176 1.00 39.21	E.
ATOM	4006 OE2 GLU	J 17	40.447 36.352 91.904 1.00 39.21	E
MOTA	4007 C GLU	17	44.822 36.592 90.507 1.00 27.06	E
MOTA	4008 O GLU	17	44.978 37.327 89.530 1.00 39.21	Ε
MOTA	4009 N ARG	18	45.757 35.765 90.949 1.00 32.71	Ε
MOTA	4010 H ARG	18	45.588 35.240 91.764 1.00 0.00	Ε
ATOM	4011 CA ARG	18	47.009 35.621 90.246 1.00 32.71	Ε
MOTA	4012 CB ARG	18	48.159 35.406 91.224 1.00 43.07	Ε
ATOM	4013 CG ARG	18	49.534 35.507 90.580 1.00 43.07	E
ATOM	4014 CD ARG		50.373 36.613 91.241 1.00 43.07	Ε
ATOM	4015 NE ARG	18	51.797 36.267 91.332 1.00 43.07	E
ATOM	4016 HE ARG		52.022 35.382 91.683 1.00 0.00	Ε
MOTA	4017 CZ ARG	18	52.787 37.083 90.971 1.00 43.07	Ε
ATOM	4018 NH1 ARG	18	52.513 38.296 90.494 1.00 43.07	Ε
ATOM	4019 HH11 AR	G 18	53.212 38.836 90.031 1.00 0.00	E
ATOM	4020 HH12 AR	G 18	51.610 38.703 90.675 1.00 0.00	Ē
ATOM	4021 NH2 ARG	18	54.051 36.697 91.069 1.00 43.07	Ē
ATOM	4022 HH21 AR		54.304 35.749 90.882 1.00 0.00	E
ATOM	4023 HH22 AR	3 18	54.649 37.269 91.636 1.00 0.00	E
ATOM	4024 C ARG	18	46.797 34.362 89.415 1.00 32.71	E
MOTA	4025 O ARG	18	45.932 33.550 89.708 1.00 43.07	E
ATOM	4026 N ALA	19	47.576 34.207 88.374 1.00 26.62	E
ATOM	4027 H ALA	19	48.244 34.877 88.156 1.00 0.00	E
ATOM	4028 CA ALA	19	47.454 33.032 87.554 1.00 26.62	E
ATOM	4029 CB ALA	19	46.591 33.317 86.326 1.00 3.84	Ε

ATOM	4030 C ALA 19	48.852 32.659 87.125 1.00 26.62 E
ATOM		
ATOM	4032 N THR 20	49.199 31.418 87.389 1.00 19.85 E
ATOM	4033 H THR 20	48.590 30.813 87.867 1.00 0.00 E
ATOM	4034 CA THR 20	50.487 30.937 86.986 1.00 19.85 E
ATOM	4035 CB THR 20	51.528 31.048 88.119 1.00 27.48 E
ATOM	4036 OG1 THR 20	51.560 29.836 88.882 1.00 27.48 E
ATOM	4037 HG1 THR 20	52.129 29.990 89.646 1.00 0.00 E
ATOM	4038 CG2 THR 20	
ATOM	4039 C THR 20	50.333 29.501 86.527 1.00 19.85 E
ATOM	4040 O THR 20	49.795 28.623 87.255 1.00 27.48 E
ATOM	4041 N ILE 21	50.768 29.302 85.282 1.00 38.09 E
ATOM	4042 H ILE 21	51.108 30.070 84.794 1.00 0.00 E
ATOM	4043 CA ILE 21	50.768 28.018 84.582 1.00 38.09 E
ATOM	4044 CB ILE 21	50.111 28.141 83.193 1.00 11.38 E
ATOM	4045 CG2 ILE 21	50.222 26.807 82.428 1.00 11.38 E
ATOM	4046 CG1 ILE 21	48.645 28.528 83,342 1.00 11.38 E
ATOM	4047 CD1 ILE 21	48.220 29.514 82.297 1.00 11.38 E
ATOM	4048 C ILE 21	
		52.228 27.639 84.390 1.00 38.09 E
ATOM	4049 O ILE 21	53.110 28.524 84.323 1.00 11.38 E
MOTA	4050 N SER 22	52.496 26.339 84.283 1.00 17.14 E
ATOM	4051 H SER 22	51.783 25.678 84.322 1.00 0.00 E
ATOM	4052 CA SER 22	53.880 25.946 84.114 1.00 17.14 E
ATOM	4053 CB SER 22	
		54.410 25.368 85.426 1.00 35.33 E
ATOM	4054 OG SER 22	53.735 24.176 85.748 1.00 35.33 E
ATOM	4055 HG SER 22	52.798 24.251 85.544 1.00 0.00 E
ATOM	4056 C SER 22	54.137 25.004 82.950 1.00 17.14 E
ATOM	4057 O SER 22	53.337 24.120 82.664 1.00 35.33 E
ATOM	4058 N CYS 23	
		55.274 25.196 82.286 1.00 3.80 E
ATOM	4059 H CYS 23	55.872 25.912 82.566 1.00 0.00 E
MOTA	4060 CA CYS 23	55.647 24.376 81.157 1.00 3.80 E
ATOM	4061 C CYS 23	56.916 23.625 81.491 1.00 3.80 E
ATOM	4062 O CYS 23	57.813 24.162 82.158 1.00 22.92 E
ATOM	4063 CB CYS 23	55.843 25.227 79.897 1.00 22.92 E
ATOM	4064 SG CYS 23	56.253 24.192 78.464 1.00 22.92 E
ATOM		
		57.008 22.398 80.984 1.00 25.69 E
ATOM	4066 H ARG 24	56.288 22.077 80.405 1.00 0.00 E
MOTA	4067 CA ARG 24	58.132 21.526 81.268 1.00 25.69 E
ATOM	4068 CB ARG 24	57.704 20.582 82.380 1.00 35.62 E
ATOM	4069 CG ARG 24	58.534 20.698 83.578 1.00 35.62 E
MOTA	4070 CD ARG 24	59.781 19.914 83.324 1.00 35.62 E
ATOM	4071 NE ARG 24	
ATOM		
	4072 HE ARG 24	61.495 20.405 84.420 1.00 0.00 E
ATOM	4073 CZ ARG 24	60.382 19.276 85.608 1.00 35.62 E
ATOM	4074 NH1 ARG 24	59.249 18.573 85.745 1.00 35.62 E
ATOM	4075 HH11 ARG 24	59.263 17.574 85.650 1.00 0.00 E
ATOM	4076 HH12 ARG 24	
ATOM	4077 NH2 ARG 24	61.256 19.341 86.595 1.00 35.62 E
ATOM	4078 HH21 ARG 24	
ATOM	4079 HH22 ARG 24	
ATOM	4080 C ARG 24	58.666 20.718 80.077 1.00 25.69 E
MOTA	4081 O ARG 24	57.967 19.840 79.555 1.00 35.62 E
ATOM	4082 N ALA 25	59.914 20.999 79.690 0.00 20.00 E
ATOM	4083 H ALA 25	
ATOM	4084 CA ALA 25	00 505 00 010 50 501 01
		60.587 20.340 78.561 0.00 20.00 E
ATOM	4085 CB ALA 25	61.489 21.346 77.815 0.00 20.00 E

ΔΤΩΝΑ	4000	C A1	۸ ۵۶	61.426 19.142 78.975 0.00 20.00	E
ATOM	4086				
ATOM	4087			62.211 19.225 79.913 0.00 20.00	Ē
ATOM	4088	N SE	R 26	61.268 18.038 78.250 0.00 20.00	E
ATOM	4089	H SE	R 26	60.618 18.043 77.518 1.00 0.00	Ε
MOTA	4090			62.023 16.814 78.510 0.00 20.00	E
MOTA	4091	CB SE	R 26	61.554 15.703 77.568 0.00 20.00	Ε
ATOM	4092	OG S	ER 26	61.492 16.164 76.228 0.00 20.00	Ε
ATOM	4093	HG SE	ER 26	62.289 15.919 75.754 1.00 0.00	Ε
ATOM	4094	C SE	R 26	63.527 17.030 78.318 0.00 20.00	Ε
MOTA	4095	O SE	R 26	64.342 16.338 78.928 0.00 20.00	Ε
MOTA	4096	N GLI		63.884 17.982 77.457 0.00 20.00	Ε
MOTA	4097	H GL	N 27	63.182 18.488 76.997 1.00 0.00	E
MOTA	4098	CA GL	.N 27	65.284 18.304 77.165 0.00 20.00	Ε
ATOM	4099	CB GL		65.584 17.996 75.685 0.00 20.00	Ε
ATOM	4100	CG GI		66.932 18.499 75.158 0.00 20.00	Ε
ATOM	4101	CD GI		67.322 17.882 73.811 0.00 20.00	Ε
ATOM	4102			66.730 16.892 73.366 0.00 20.00	Ε
ATOM	4103	NE2 G	LN 27	68.325 18.469 73.159 0.00 20.00	Ε
ATOM	4104	HE21 G			Ε
ATOM	4105	HE22 G	LN 27		E
ATOM	4106	C GLI		65.540 19.784 77.476 0.00 20.00	E
ATOM	4107	O GL		64.600 20.574 77.595 0.00 20.00	Ε
ATOM	4108	N AR	G 28	66.810 20.154 77.611 0.00 20.00	E
ATOM	4109	H AR	G 28	67.507 19.479 77.498 1.00 0.00	Ε
ATOM	4110			67.179 21.534 77.916 0.00 20.00	Ε
MOTA	4111	CB AF		68.676 21.622 78.225 0.00 20.00	E
ATOM	4112	CG AF		69.023 22.606 79.331 0.00 20.00	Ε
ATOM	4113	CD AF		69.883 21.951 80.399 0.00 20.00	Ε
ATOM	4114	NE AF		69.195 20.841 81.052 0.00 20.00	Ε
ATOM	4115	HE AR		68.301 20.597 80.730 1.00 0.00	Ε
ATOM		CZ AR		69.704 20.136 82.057 0.00 20.00	E
ATOM	4117			70.909 20.425 82.529 0.00 20.00	E
ATOM		HH11 A			E
ATOM		HH12 A			E
ATOM		NH2 AI			E
MOTA		HH21 A			E
ATOM		HH22 A			_E
ATOM	4123			66.840 22.483 76.772 0.00 20.00	E
MOTA	4124			66.897 22.107 75.601 0.00 20.00	E
MOTA		N VAL		66.487 23.717 77.120 0.00 20.00	E
ATOM	4126	H VAL			E
ATOM		CA VA		66.142 24.726 76.125 0.00 20.00	E
ATOM		CB VA		64.615 24.791 75.897 0.00 20.00	E
MOTA		CG1 V		64.138 23.529 75.199 0.00 20.00	Ē
		CG2 V		63.898 24.970 77.223 0.00 20.00	_E
MOTA	4131	C VAL		66.628 26.109 76.545 0.00 20.00	Ē
MOTA	4132			66.878 26.970 75.700 0.00 20.00	Ē
ATOM		N SEF		66.763 26.317 77.852 0.00 20.00	E
ATOM ATOM		H SEF			E_
	4135	CA SE	R 30	67.215 27.599 78.380 0.00 20.00	E
MOTA	4136	CB SE	R 30	68.699 27.806 78.058 0.00 20.00	E
ATOM ATOM		OG SE		69.481 26.725 78.537 0.00 20.00	E
ATOM	4138	HG SE		70.376 26.790 78.195 1.00 0.00	E
ATOM				66.384 28.731 77.779 0.00 20.00	Ē
ATOM	4141			65.164 28.616 77.668 0.00 20.00	E
A I OIVI	7141	N SEF	₹ 31	67.043 29.820 77.395 0.00 20.00	Ε

	1142		31	68.013 29.885 77.505 1.00 0.00	Ε
		CA SER	31	66.351 30.958 76.801 0.00 20.00	E
		CB SER	31	67.276 32.178 76.763 0.00 20.00	E
		OG SER HG SER		68.638 31.787 76.723 0.00 20.00 68.720 30.917 76.328 1.00 0.00	E
	1147	C SER	31	65.895 30.611 75.386 0.00 20.00	E
		O SER	31	66.487 31.060 74.405 0.00 20.00	E
		N ALA	32	64.837 29.813 75.291 1.00 14.83	Ē
		H ALA	32	64.406 29.499 76.113 1.00 0.00	Ē
		CA ALA	32	64.290 29.380 73.992 1.00 14.83	E
		CB ALA	32	65.372 28.607 73.212 1.00 20.83	Ε
		C ALA	32	62.924 28.596 73.937 1.00 14.83	E
	154		32	62.745 27.684 73.103 1.00 20.83	E
	1155 1156	N VAL H VAL	33	61.961 28.972 74.793 1.00 27.74 62.172 29.703 75.423 1.00 0.00	E
		CA VAL	33 33	62.172 29.703 75.423 1.00 0.00 60.598 28.376 74.861 1.00 27.74	E
		CB VAL	33	60.369 27.570 76.263 1.00 9.77	E
		CG1 VAL		60.265 28.577 77.395 1.00 9.77	E
		CG2 VAL		59.160 26.608 76.223 1.00 9.77	Ē
ATOM 4	161	C VAL	33	59.754 29.657 74.801 1.00 27.74	Ε
		O VAL	33		Ε
	163		34		E
	164	H HIS CA HIS	34		E
		CA HIS	34 34	57.757 30.873 74.255 1.00 2.00 57.792 31.404 72.798 1.00 26.70	E
		CG HIS	34	59.106 31.169 72.114 1.00 26.70	E
		CD2 HIS	34	59.571 30.106 71.415 1.00 26.70	Ε
		ND1 HIS	34	60.169 32.047 72.227 1.00 26.70	Ē
ATOM 4	170 i	HD1 HIS	34	60.124 32.924 72.676 1.00 0.00	E
		CE1 HIS	34	61.231 31.530 71.630 1.00 26.70	E
		NE2 HIS	34	60.895 30.355 71.130 1.00 26.70	Ε
		HE2 HIS	34	61.504 29.768 70.645 1.00 0.00	E
	174(175(34 34		=
	176 I		35	55.594 31.659 74.901 1.00 19.98	E E
	 177 i		35		E
		CA TRP	35	54.199 31.471 75.279 1.00 19.98	E
		CB TRP	35	53.961 31.996 76.688 1.00 9.28	E
		CG TRP	35	54.731 31.257 77.706 1.00 9.28	Ε
		CD2 TRP	35	54.290 30.112 78.465 1.00 9.28	E
		CE2 TRP	35	55.327 29.796 79.382 1.00 9.28	Ε
		DD1 TRP	35 35	53.125 29.329 78.466 1.00 9.28 55.970 31.574 78.167 1.00 9.28	E
		VE1 TRP	35	56.336 30.704 79.172 1.00 9.28	E
		HE1 TRP	35	57.183 30.733 79.651 1.00 0.00	E
ATOM 41	187 (CZ2 TRP	35	55.234 28.725 80.294 1.00 9.28	Ē
		CZ3 TRP	35	53.035 28.252 79.382 1.00 9.28	Ē
		CH2 TRP	35	54.088 27.971 80.276 1.00 9.28	Ε
	190 (35		E
	191 (192 N		35 36	53.453 33.205 73.754 1.00 9.28	E
	192 I		36 36	T4 000 00 00 00 00 00 00 00 00 00 00 00 0	E
		A TYR	36	50.998 31.837 73.256 1.00 25.70	E E
ATOM 41	195 C	B TYR	36	50.922 30.982 71.986 1.00 8.33	E
	196 C	G TYR	36	52.183 31.006 71.154 1.00 8.33	E
ATOM 41	197 C	D1 TYR	36	52.225 31.739 69.950 1.00 8.33	Ē

ATOM	4198	CE1 TYR	36	53.387 31.838 69.224 1.00 8.33	Ε
MOTA	4199	CD2 TYR		53.374 30.355 71.592 1.00 8.33	Ε
ATOM	4200	CE2 TYR	36	54.550 30.449 70.865 1.00 8.33	Ε
ATOM	4201	CZ TYR	36	54.542 31.200 69.680 1.00 8.33	Ε
ATOM	4202	OH TYR	36	55.691 31.336 68.933 1.00 8.33	Ε
ATOM	4203		36	55.851 30.513 68.455 1.00 0.00	E
ATOM	4204	C TYR	36	49.680 31.699 74.027 1.00 25.70	Ε
ATOM	4205	O TYR	36	49.537 30.860 74.927 1.00 8.33	Ε
ATOM	4206		37	48.722 32.536 73.670 1.00 3.50	E
ATOM	4207	H GLN	37	48.899 33.195 72.962 1.00 0.00	Ε
ATOM	4208	CA GLN	37	47.400 32.498 74.288 1.00 3.50	E
ATOM		CB GLN	37	47.114 33.772 75.069 1.00 7.73	E
MOTA	4210	CG GLN	37	45.646 34.067 75.123 1.00 7.73	E
ATOM	4211	CD GLN	37	45.342 35.508 75.411 1.00 7.73	Ε
ATOM		OE1 GLN		45,283 36,331 74,511 1.00 7.73	Ε
ATOM	4213	NE2 GLN	37	45.132 35.815 76.669 1.00 7.73	Ε
MOTA	4214	HE21 GLN	N 37	45.839 36.244 77.187 1.00 0.00	Ε
ATOM		HE22 GLN		44.249 35.588 77.041 1.00 0.00	Ē
MOTA	4216	C GLN	37	46.421 32.406 73.149 1.00 3.50	E
ATOM	4217	O GLN	· 37	46.434 33.250 72.265 1.00 7.73	Ε
ATOM	4218	N GLN	38	45.584 31.377 73.153 1.00 13.14	Ε
ATOM	4219	H GLN	38	45.628 30.726 73.860 1.00 0.00	E
ATOM	4220	CA GLN	38	44.611 31.233 72.080 1.00 13.14	Ε
ATOM	4221	CB GLN	38	44.698 29.866 71.459 1.00 2.00	Ε
ATOM	4222		38	44.132 29.788 70.073 1.00 2.00	E
ATOM	4223	CD GLN	38	44.243 28.388 69.562 1.00 2.00	E
ATOM	4224	OE1 GLN	38	44.197 27.443 70.345 1.00 2.00	Ε
ATOM					
		NE2 GLN			E
ATOM	4226	HE21 GLN	1 38	44.812 27.409 67.937 1.00 0.00	E
ATOM	4227	HE22 GLN	1 38	44.124 28.967 67.671 1.00 0.00	Ε
ATOM	4228		38	43.227 31.450 72.599 1.00 13.14	E
ATOM	4229	O GLN	38	42.850 30.853 73.568 1.00 2.00	Ε
ATOM	4230	N LYS	39	42.494 32.321 71.936 1.00 2.00	E
ATOM	4231	H LYS	39	42.890 32.768 71.154 1.00 0.00	Ε .
ATOM	4232				_
		CA LYS	39	41.126 32.655 72.307 1.00 2.00	E
ATOM	4233	CB LYS	39	40.897 34.176 72.285 1.00 12.56	E
ATOM	4234	CG LYS	39	41.520 34.994 73.415 1.00 12.56	Ε
ATOM	4235	CD LYS	39		Ē
ATOM	4236	CE LYS	39	41.983 37.503 73.606 1.00 12.56	Ε
ATOM	4237	NZ LYS	39	42.404 37.646 75.053 1.00 12.56	E
ATOM	4238	HZ1 LYS	39	42.343 36.694 75.505 1.00 0.00	Ε
ATOM		HZ2 LYS			
			39	41.766 38.284 75.582 1.00 0.00	Ε
ATOM	4240	HZ3 LYS	39	43.380 37.967 75.113 1.00 0.00	E
ATOM	4241	C LYS	39	40.217 32.035 71.269 1.00 2.00	E
ATOM					
VI OIN			30	40 516 32 068 70 070 4 00 42 EE	
ATOM	4242	O LYS	39	40.516 32.068 70.079 1.00 12.56	E
ATOM	4242 4243	O LYS N PRO	39 40	39.076 31.494 71.699 1.00 21.69	E
MOTA MOTA	4242 4243	O LYS		39.076 31.494 71.699 1.00 21.69	E
ATOM	4242 4243 4244	O LYS N PRO CD PRO	40 40	39.076 31.494 71.699 1.00 21.69 38.629 31.529 73.092 1.00 9.65	E E
MOTA MOTA	4242 4243 4244 4245	O LYS N PRO CD PRO CA PRO	40 40 40	39.076 31.494 71.699 1.00 21.69 38.629 31.529 73.092 1.00 9.65 38.088 30.844 70.824 1.00 21.69	E E
ATOM ATOM ATOM	4242 4243 4244 4245 4246	O LYS N PRO CD PRO CA PRO CB PRO	40 40 40 40	39.076 31.494 71.699 1.00 21.69 38.629 31.529 73.092 1.00 9.65 38.088 30.844 70.824 1.00 21.69 36.847 30.741 71.672 1.00 9.65	EEE
ATOM ATOM ATOM ATOM	4242 4243 4244 4245 4246 4247	O LYS N PRO CD PRO CA PRO CB PRO CG PRO	40 40 40	39.076 31.494 71.699 1.00 21.69 38.629 31.529 73.092 1.00 9.65 38.088 30.844 70.824 1.00 21.69 36.847 30.741 71.672 1.00 9.65 37.153 31.613 72.893 1.00 9.65	E E
ATOM ATOM ATOM	4242 4243 4244 4245 4246	O LYS N PRO CD PRO CA PRO CB PRO	40 40 40 40 40	39.076 31.494 71.699 1.00 21.69 38.629 31.529 73.092 1.00 9.65 38.088 30.844 70.824 1.00 21.69 36.847 30.741 71.672 1.00 9.65 37.153 31.613 72.893 1.00 9.65	
ATOM ATOM ATOM ATOM ATOM	4242 4243 4244 4245 4246 4247 4248	O LYS N PRO CD PRO CA PRO CB PRO CG PRO C PRO	40 40 40 40 40 40	39.076 31.494 71.699 1.00 21.69 38.629 31.529 73.092 1.00 9.65 38.088 30.844 70.824 1.00 21.69 36.847 30.741 71.672 1.00 9.65 37.153 31.613 72.893 1.00 9.65 37.853 31.658 69.594 1.00 21.69	
ATOM ATOM ATOM ATOM ATOM	4242 4243 4244 4245 4246 4247 4248 4249	O LYS N PRO CD PRO CA PRO CB PRO CG PRO O PRO	40 40 40 40 40 40	39.076 31.494 71.699 1.00 21.69 38.629 31.529 73.092 1.00 9.65 38.088 30.844 70.824 1.00 21.69 36.847 30.741 71.672 1.00 9.65 37.153 31.613 72.893 1.00 9.65 37.853 31.658 69.594 1.00 21.69 37.645 32.844 69.687 1.00 9.65	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4242 4243 4244 4245 4246 4247 4248 4249 4250	O LYS N PRO CD PRO CA PRO CB PRO CG PRO O PRO N GLY	40 40 40 40 40 40 40 41	39.076 31.494 71.699 1.00 21.69 38.629 31.529 73.092 1.00 9.65 38.088 30.844 70.824 1.00 21.69 36.847 30.741 71.672 1.00 9.65 37.153 31.613 72.893 1.00 9.65 37.853 31.658 69.594 1.00 21.69 37.645 32.844 69.687 1.00 9.65 37.938 30.989 68.450 1.00 21.98	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4242 4243 4244 4245 4246 4247 4248 4249 4250 4251	O LYS N PRO CD PRO CA PRO CB PRO C PRO O PRO N GLY H GLY	40 40 40 40 40 40	39.076 31.494 71.699 1.00 21.69 38.629 31.529 73.092 1.00 9.65 38.088 30.844 70.824 1.00 21.69 36.847 30.741 71.672 1.00 9.65 37.153 31.613 72.893 1.00 9.65 37.853 31.658 69.594 1.00 21.69 37.645 32.844 69.687 1.00 9.65 37.938 30.989 68.450 1.00 21.98 38.126 30.024 68.477 1.00 0.00	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4242 4243 4244 4245 4246 4247 4248 4249 4250 4251	O LYS N PRO CD PRO CA PRO CB PRO C PRO O PRO N GLY H GLY	40 40 40 40 40 40 41 41	39.076 31.494 71.699 1.00 21.69 38.629 31.529 73.092 1.00 9.65 38.088 30.844 70.824 1.00 21.69 36.847 30.741 71.672 1.00 9.65 37.153 31.613 72.893 1.00 9.65 37.853 31.658 69.594 1.00 21.69 37.645 32.844 69.687 1.00 9.65 37.938 30.989 68.450 1.00 21.98 38.126 30.024 68.477 1.00 0.00	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4242 4243 4244 4245 4246 4247 4248 4249 4250 4251	O LYS N PRO CD PRO CA PRO CB PRO C PRO O PRO N GLY H GLY CA GLY	40 40 40 40 40 40 40 41	39.076 31.494 71.699 1.00 21.69 38.629 31.529 73.092 1.00 9.65 38.088 30.844 70.824 1.00 21.69 36.847 30.741 71.672 1.00 9.65 37.153 31.613 72.893 1.00 9.65 37.853 31.658 69.594 1.00 21.69 37.645 32.844 69.687 1.00 9.65 37.938 30.989 68.450 1.00 21.98	

ATOM	1 425	4 0	GLY	41	39.019 31.882 65.165 1.00 27.16	=
ATOM			GLN	42	40.086 32.267 67.118 1.00 28.61	E
ATOM		6 H	GLN	42	40.014 32.192 68.090 1.00 0.00	E
ATOM			GLN		41.361 32.728 66.559 1.00 28.61	
ATOM			GLN			E
ATOM			GLIV		41.708 33.993 67.346 1.00 31.18	E
ATOM					40.480 34.723 67.882 1.00 31.18	E
			GLN		40.824 35.951 68.742 1.00 31.18	E
ATOM			1 GLI			E
ATOM			2 GL1			E
ATOM			21 GL			E
ATOM			22 GL			E
ATOM		_	GLN	42	42.619 31.816 66.458 1.00 28.61	E
ATOM			GLN	42	42.641 30.732 67.004 1.00 31.18	E
ATOM			PRO	43	43.659 32.230 65.696 1.00 2.00	E
ATOM			PRC		43.817 33.406 64.825 1.00 3.30	Ε
ATOM			PRC		44.849 31.405 65.612 1.00 2.00	Ε
ATOM			PRC		45.568 31.949 64.414 1.00 3.30	Ε
ATOM			PRC		45.278 33.369 64.480 1.00 3.30	Ε
ATOM	4272		PRO	43	45.570 31.855 66.830 1.00 2.00	Ε
ATOM	4273		PRO	43	45.203 32.842 67.398 1.00 3.30	E
ATOM	4274		PRO	44	46.610 31.124 67.254 1.00 2.20	Ε
ATOM			PRO		47.036 29.841 66.679 1.00 20.30	Ε
ATOM			PRO		47.404 31.448 68.427 1.00 2.20	Ε
ATOM			PRO		48.395 30.324 68.495 1.00 20.30	E
ATOM			PRO		47.692 29.193 67.849 1.00 20.30	E
ATOM	4279		PRO	44		E
ATOM	4280		PRO	44	48.226 33.407 67.317 1.00 20.30	Ε
ATOM	4281		LYS	45		Ε
ATOM	4282		LYS	45		Ξ
ATOM			LYS	45	48.897 34.660 69.777 1.00 19.83	Ε
MOTA MOTA			LYS	45	47.838 35.594 70.386 1.00 12.67	E
ATOM	4285 4286		LYS LYS	45	48.003 37.053 70.062 1.00 12.67	E
ATOM			LYS	45 45	47.959 37.954 71.311 1.00 12.67	E
ATOM	4288			45 45	48.593 39.327 71.044 1.00 12.67	Ε
ATOM			LYS	45 45	49.935 39.290 70.278 1.00 12.67	E
ATOM	4290		LYS	45	50.554 40.073 70.599 1.00 0.00	E
ATOM	4291		LYS	45 45	49.747 39.393 69.263 1.00 0.00	E
ATOM	4292		LYS	45	50.406 38.384 70.459 1.00 0.00	E
ATOM	4293		LYS	45	50.095 34.585 70.705 1.00 19.83	E
ATOM			LEU	46	E4 000 00 00 000	E
ATOM	4295			46		E -
ATOM	4296			46	51.016 36.022 69.668 1.00 0.00 E	
ATOM	4297			46	52.281 35.418 71.240 1.00 23.66	E
ATOM	4298			46	53.534 35.622 70.375 1.00 16.02	E
ATOM			LEU	46	54.742 35.579 71.306 1.00 16.02	Ē
ATOM			LEU	46	55.055 34.120 71.621 1.00 16.02	E
ATOM	4301		.EU	46	55.910 36.304 70.704 1.00 16.02 52.251 36.474 72.331 1.00 23.66	E
ATOM	4302		LEU	46		Ξ
ATOM	4303		EU	47	**	E =
ATOM	4304		EU	47		Ξ.
ATOM	4305			47		
ATOM	4306			47		E
ATOM	4307			47	50.812 35.511 75.533 1.00 23.06	E E
ATOM	4308			47	50.808 34.765 76.814 1.00 23.06	
ATOM	4309			47	49.394 35.969 75.223 1.00 23.06	E
				• •	10.000 10.223 1.00 23.00	

ATOM	4310 C LEU 47	54.139 37.015 75.223 1.00 24.58	Ε
ATOM	4311 O LEU 47	54.635 38,039 75.705 1.00 23.06	Ē
ATOM	4312 N ILE 48	54.748 35.836 75.224 1.00 19.92	E
ATOM	4313 H ILE 48	54.328 35.040 74.835 1.00 0.00	E
ATOM	4314 CA ILE 48	56.062 35.753 75.800 1.00 19.92	E
ATOM	4315 CB ILE 48	55.957 35.116 77,176 1.00 23.50	Ε
MOTA	4316 CG2 ILE 48	57.224 34.325 77.506 1.00 23.50	E
ATOM	4317 CG1 ILE 48	55.723 36.203 78.206 1.00 23.50	Ε
ATOM	4318 CD1 ILE 48	54.394 36.124 78.783 1.00 23.50	Ε
ATOM	4319 C ILE 48	57.040 34.989 74.905 1.00 19.92	Ε
ATOM	4320 O ILE 48	56.739 33.848 74.519 1.00 23.50	E
ATOM	4321 N LYS 49	58.163 35.631 74.521 1.00 21.85	E
MOTA	4322 H LYS 49 4323 CA LYS 49	58.290 36.560 74.786 1.00 0.00	E
ATOM ATOM	4323 CA LYS 49 4324 CB LYS 49	59.226 34.958 73.710 1.00 21.85 59.517 35.636 72.387 1.00 18.23	Ε
ATOM	4325 CG LYS 49	59.517 35.636 72.387 1.00 18.23 60.083 37.011 72.494 1.00 18.23	E E
ATOM	4326 CD LYS 49	59.172 38.005 71.797 1.00 18.23	E
ATOM	4327 CE LYS 49	59.970 39.110 71.078 1.00 18.23	E
ATOM	4328 NZ LYS 49	59.834 39.104 69.534 1.00 18.23	Ē
ATOM	4329 HZ1 LYS 49	59.228 39.890 69.255 1.00 0.00	Ē
MOTA	4330 HZ2 LYS 49	59.388 38.206 69.215 1.00 0.00	E
MOTA	4331 HZ3 LYS 49	60.769 39.204 69.106 1.00 0.00	E
ATOM	4332 C LYS 49	60.484 35.009 74.532 1.00 21.85	E
ATOM	4333 O LYS 49	60.829 36.081 75.015 1.00 18.23	E
ATOM	4334 N TYR 50	61.114 33.838 74.701 1.00 18.82	E
MOTA	4335 H TYR 50	60.728 33.058 74.258 1.00 0.00	E
MOTA MOTA	4336 CA TYR 50 4337 CB TYR 50	62.363 33.620 75.478 1.00 18.82	Ε
ATOM	4337 CB TYR 50 4338 CG TYR 50	63.477 34.656 75.155 1.00 26.82 63.838 34.665 73.709 1.00 26.82	E
ATOM	4339 CD1 TYR 50	63.494 35.746 72.904 1.00 26.82	E
ATOM	4340 CE1 TYR 50	63.702 35.713 71.553 1.00 26.82	Ē
ATOM	4341 CD2 TYR 50	64.416 33.544 73.114 1.00 26.82	E
MOTA	4342 CE2 TYR 50	64.629 33.503 71.753 1.00 26.82	Ē
MOTA	4343 CZ TYR 50	64.261 34.595 70.988 1.00 26.82	E
ATOM	4344 OH TYR 50	64.425 34.569 69.630 1.00 26.82	Ε
MOTA	4345 HH TYR 50	64.391 35.466 69.292 1.00 0.00	E
MOTA	4346 C TYR 50	62.169 33.590 76.967 1.00 18.82	E
MOTA	4347 O TYR 50	62.772 34.371 77.705 1.00 26.82	E
MOTA MOTA	4348 N ALA 51 4349 H ALA 51	61.347 32.658 77.404 1.00 19.17 60.931 32.051 76.760 1.00 0.00	E E
	4350 CA ALA 51	61.047 32.493 78.809 1.00 19.17	E
ATOM		62.252 31.949 79.552 1.00 32.32	E
ATOM	4352 C ALA 51	60.584 33.758 79.485 1.00 19.17	E
MOTA	4353 O ALA 51	60.021 33.662 80.574 1.00 32.32	Ē.
MOTA	4354 N SER 52	60.760 34.933 78.875 1.00 12.06	Ē
MOTA	4355 H SER 52	61.112 35.035 77.978 1.00 0.00	Ε
ATOM	4356 CA SER 52	60.358 36.118 79.612 1.00 12.06	E
MOTA	4357 CB SER 52	61.315 36.280 80.750 1.00 30.23	E
MOTA	4358 OG SER 52	62.482 36.823 80.179 1.00 30.23	E
MOTA		63.176 36.161 80.201 1.00 0.00	E
ATOM ATOM	4360 C SER 52 4361 O SER 52	60.268 37.483 78.958 1.00 12.06	E
ATOM	4362 N ALA 53	60.015 38.487 79.644 1.00 30.23 60.493 37.576 77.668 1.00 16.73	E
ATOM	4363 H ALA 53	60.694 36.783 77.126 1.00 0.00	E
ATOM		60.430 38.898 77.089 1.00 16.73	E
MOTA	4365 CB ALA 53	61.514 39.048 76.012 1.00 27.67	Ē
			-

ATOM	4366		ALA	53	59.025 39.139 76.533 1.00 16.73	Ε
			-			
ATOM	4367	-	ALA	53	58.542 38.404 75.668 1.00 27.67	E
ATOM	4368	N	LEU	54	58.365 40.163 77.058 1.00 9.11	Ε
ATOM	4369) H	LEU	54	58.813 40.725 77.738 1.00 0.00	Ε
ATOM	4370	C	A LEU	54	57.007 40.479 76.657 1.00 9.11	E
ATOM			S LEU		56.411 41.521 77.583 1.00 34.96	Ē
ATOM			G LEU		55.468 40.915 78.604 1.00 34.96	Ē
ATOM			D1 LEU		55.946 41.253 80.043 1.00 34.96	E
ATOM			D2 LEU	54	54.067 41.429 78.324 1.00 34.96	E
ATOM	4375	C	LEU	54	56.948 40.983 75.263 1.00 9.11	Ε
ATOM	4376	0	LEU	54	57.542 42.015 74.942 1.00 34.96	Ε
ATOM	4377		GLU	55	56.234 40.255 74.414 1.00 15.61	Ē
ATOM	4378		GLU	55	55.801 39.431 74.719 1.00 0.00	Ē
ATOM			GLU		56.079 40.684 73.037 1.00 15.61	E
ATOM			GLU	55	55.387 39.620 72.201 1.00 35.28	Ε
ATOM	4381	CC	3 GLU	55	55.297 39.977 70.706 1.00 35.28	E
ATOM	4382	C) GLU	55	56.651 40.252 70.034 1.00 35.28	Ε
ATOM	4383	OE	E1 GLL	55	56.771 40.026 68.796 1.00 35.28	Ε
ATOM			E2 GLU		57.589 40.706 70.730 1.00 35.28	Ē
ATOM	4385		GLU	55	55.328 42.026 72.953 1.00 15.61	
						Ē
ATOM	4386		GLU	55	54.368 42.312 73.671 1.00 35.28	E
ATOM	4387		SER	56	55.824 42.828 72.037 1.00 11.64	Ε
ATOM	4388		SER	56	56.579 42.487 71.512 1.00 0.00	E
ATOM	4389	CA	SER	56	55.372 44.154 71.768 1.00 11.64	E
ATOM	4390	CE	SER	56	56.099 44.666 70.530 1.00 35.69	Ε
ATOM	4391	00	SER	56	57.224 43.828 70.279 1.00 35.69	E
ATOM			SER		57.556 43.960 69.387 1.00 0.00	E
ATOM	4393		SER	56	53.922 44.377 71.626 1.00 11.64	Ē
ATOM	4394		SER	56	53.422 44.428 70.504 1.00 35.69	
ATOM	4395		GLY			E
				57	53.239 44.532 72.762 1.00 13.73	E
MOTA	4396		GLY	57	53.712 44.470 73.613 1.00 0.00	Ε
ATOM			GLY	57	51.811 44.779 72.733 1.00 13.73	Ε
ATOM	4398		GLY	57	51.073 44.163 73.876 1.00 13.73	Ε
ATOM	4399	0	GLY	57	50.180 44.772 74.457 1.00 18.54	Ε
ATOM	4400	Ν	VAL	58	51.446 42.932 74.196 1.00 40.11	Ε
ATOM	4401	Н	VAL	58	52.162 42.494 73.691 1.00 0.00	E
ATOM	4402	CA	VAL	58	50.815 42.183 75.290 1.00 40.11	E
ATOM	4403	CB	VAL	58	51.652 40.930 75.642 1.00 28.48	Ē
ATOM			1 VAL		51.007 40.171 76.797 1.00 28.48	
ATOM			2 VAL			E
					51.827 40.056 74.392 1.00 28.48	_E
ATOM			VAL			E
ATOM	4407		VAL	58	51.386 43.856 76.932 1.00 28.48	E
ATOM	4408		PRO	59	49.500 42.745 77.238 1.00 18.31	Ε
ATOM			PRO	59	48.409 41.820 76.927 1.00 33.87	Ε
ATOM	4410	CA	PRO	59	49.263 43.495 78.463 1.00 18.31	Ε
ATOM	4411	CB	PRO	59	47.892 43.013 78.931 1.00 33.87	Ē
ATOM			PRO	59	47.266 42.407 77.722 1.00 33.87	Ē
ATOM	4413		PRO	59	50.356 43.249 79.501 1.00 18.31	
ATOM	4414		PRO	59		E
ATOM	4415	-			50.940 42.157 79.584 1.00 33.87	E
			ALA	60	50.575 44.288 80.310 1.00 34.77	E
MOTA	4416		ALA	60		E
ATOM			ALA	60	51.590 44.314 81.351 1.00 34.77	Ε
ATOM	4418			60	51.594 45.677 82.031 1.00 25.04	Ε
ATOM	4419		ALA	60	51.486 43.214 82.387 1.00 34.77	E
ATOM	4420		ALA	60	52.494 42.666 82.800 1.00 25.04	E
ATOM	4421	N	ARG	61	50.275 42.877 82.801 1.00 22.07	Ē
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АТОМ	4422 H ARG	61	49.499 43.335 82.421 1.00 0.00	E
ATOM	4423 CA ARG	61	50.095 41.836 83.808 1.00 22.07	E
ATOM	4424 CB ARG	61	48.610 41.635 84.086 1.00 35.85	Ε
ATOM	4425 CG ARG	61	47.686 41.927 82.916 1.00 35.85	E
ATOM	4426 CD ARG	61	46.224 41.598 83.293 1.00 35.85	Ε
MOTA	4427 NE ARG	61	45.551 40.793 82.277 1.00 35.85	Ε
MOTA	4428 HE ARG	61	45.427 39.835 82.455 1.00 0.00	E
MOTA	4429 CZ ARG	61	45.098 41.275 81.122 1.00 35.85	E
ATOM	4430 NH1 ARG		45.232 42.567 80.810 1.00 35.85	E
ATOM	4431 HH11 ARG		44.416 43.133 80.644 1.00 0.00	E
MOTA	4432 HH12 ARG		46.089 43.029 81.035 1.00 0.00	E
MOTA	4433 NH2 ARG		44.513 40.455 80.271 1.00 35.85	E E
MOTA	4434 HH21 ARG		43.518 40.506 80.147 1.00 0.00 45.065 40.000 79.574 1.00 0.00	E
MOTA MOTA	4435 HH22 ARG 4436 C ARG	61	50.713 40.491 83.446 1.00 22.07	E
ATOM	4437 O ARG	61	50.813 39.606 84.291 1.00 35.85	Ē
ATOM	4438 N PHE	62	51.123 40.350 82.189 1.00 32.53	Ē
ATOM	4439 H PHE	62	51.025 41.100 81.574 1.00 0.00	Ē
ATOM	4440 CA PHE	62	51.720 39.110 81.700 1.00 32.53	E
ATOM	4441 CB PHE	62	51.415 38.894 80.216 1.00 28.81	E
MOTA	4442 CG PHE	62	50.001 38.527 79.953 1.00 28.81	E
MOTA	4443 CD1 PHE	62	49.481 37.318 80.436 1.00 28.81	Ε
MOTA	4444 CD2 PHE	62	49.162 39.404 79.286 1.00 28.81	Ε
ATOM	4445 CE1 PHE	62	48.139 36.993 80.259 1.00 28.81	Ε
ATOM	4446 CE2 PHE	62	47.820 39.083 79.105 1.00 28.81	Ε
ATOM	4447 CZ PHE	62	47.309 37.872 79.594 1.00 28.81	E
ATOM	4448 C PHE	62	53.201 39.144 81.898 1.00 32.53	E
MOTA MOTA	4449 O PHE 4450 N SER	62 63	53.847 40.148 81.574 1.00 28.81	E
ATOM	4450 N SER 4451 H SER	63	53.712 38.031 82.426 1.00 25.68 53.109 37.283 82.610 1.00 0.00	E
ATOM	4452 CA SER	63	55.115 37.860 82.742 1.00 25.68	E
ATOM	4453 CB SER	63	55.338 38.152 84.206 1.00 20.59	Ē
ATOM	4454 OG SER	63	54.349 37.458 84.918 1.00 20.59	Ē
MOTA	4455 HG SER	63	54.132 36.633 84.478 1.00 0.00	E
MOTA	4456 C SER	63	55.479 36.423 82.500 1.00 25.68	Ε
ATOM	4457 O SER	63	54.614 35.533 82.603 1.00 20.59	E
MOTA		64	56.762 36.206 82.196 1.00 31.73	Ε
MOTA		64	57.370 36.973 82.133 1.00 0.00	Е
MOTA	4460 CA GLY	64	57.273 34.867 81.959 1.00 31.73	Ε
MOTA		64	58.625 34.683 82.634 1.00 31.73	Ē
MOTA MOTA		64 65	59.481 35.591 82.662 1.00 20.65	E
ATOM		65 65	58.832 33.504 83.201 1.00 11.85 58.119 32.828 83.163 1.00 0.00	E
ATOM	4465 CA SER	65	60.083 33.210 83.887 1.00 11.85	E
ATOM	4466 CB SER	65	59.918 33.363 85.400 1.00 29.54	E
ATOM	4467 OG SER	65	58.873 32.519 85.863 1.00 29.54	Ē
ATOM	4468 HG SER	65	58.040 32.775 85.451 1.00 0.00	E
ATOM		65	60.358 31.785 83.559 1.00 11.85	Ē
ATOM	4470 O SER	65	59.450 31.029 83.206 1.00 29.54	Ē
ATOM	4471 N GLY	66	61.607 31.388 83.685 1.00 41.56	Ε
ATOM		66	62.300 31.998 84.010 1.00 0.00	Ε
ATOM	4473 CA GLY	66	61.921 30.023 83.334 1.00 41.56	Ε
ATOM		66	63.401 29.793 83.192 1.00 41.56	E
MOTA		66	64.147 30.620 82.637 1.00 13.61	E
ATOM ATOM		67	63.773 28.612 83.668 1.00 28.42	E
A I OIVI	4477 H SER	67	63.060 28.008 83.979 1.00 0.00	E

ATOM	447	8 CA	SER	67	65.144 28.145 83.755 1.00 28.42	-
ATOM			SER			E
ATOM			SER			E
ATOM			SER			E
ATOM			SER	67	65.371 26.807 83.105 1.00 28.42	E
ATOM			SER	67	64.643 25.849 83.366 1.00 33.28	Ē
ATOM	448	4 N	GLY	68	66.397 26.735 82.279 1.00 22.50	Ē
ATOM	448	5 H	GLY	68	66.927 27.543 82.108 1.00 0.00	Ē
ATOM			GLY	68	66.742 25.470 81.642 1.00 22.50	E
ATOM			GLY	68	65.636 24.597 81.083 1.00 22.50	Ε
ATOM			GLY	68	65.375 24.606 79.878 1.00 26.63	Ε
ATOM			THR	69	64.967 23.848 81.946 1.00 17.08	E
ATOM			THR	69	65.200 23.889 82.893 1.00 0.00	E_
ATOM ATOM			THR	69	63.892 22.964 81.496 1.00 17.08	E
ATOM			THR	69 8 69	64.310 21.514 81.718 1.00 23.62	E
ATOM			31 THR		: -: -: -: -: -: -: -: -: -: -: -	E
ATOM			2 THR			E
ATOM	4496		THR	69	62.527 23.214 82.149 1.00 17.08	E
ATOM	4497		THR	69	61.523 22.653 81.731 1.00 23.62	E
ATOM	4498		ASP	70	62.471 24.058 83.161 1.00 12.83	E
ATOM			ASP	70	63.292 24.493 83.472 1.00 0.00	E
ATOM			ASP	70	61.199 24.321 83.818 1.00 12.83	E
MOTA	4501		ASP	70	61.302 24.016 85.317 1.00 38.22	E
ATOM			ASP	70	61.334 22.529 85.607 1.00 38.22	Ε
MOTA			1 ASP	70		Ε
MOTA MOTA			2 ASP	70		E
ATOM	4505 4506		ASP ASP	70 70	60.798 25.791 83.605 1.00 12.83	Ē
ATOM	4500	-	PHE	70 71	61.599 26.700 83.843 1.00 38.22 59.558 26.021 83.162 1.00 23.26	E
ATOM	4508		PHE	71		E E
ATOM			PHE	71	59.090 27.379 82.907 1.00 23.26	E
ATOM			PHE	71	59.108 27.644 81.395 1.00 9.90	E
MOTA	4511	CG	PHE	71	60.459 27.556 80.796 1.00 9.90	E
MOTA			1 PHE	71	60.958 26.327 80.367 1.00 9.90	Ē
ATOM			2 PHE	71	61.277 28.662 80.773 1.00 9.90	Ε
MOTA			1 PHE	71	62.230 26.189 79.946 1.00 9.90	E
MOTA	4515		2 PHE	71	62.561 28.564 80.358 1.00 9.90	Ε
MOTA MOTA	4516			71	63.049 27.306 79.939 1.00 9.90	Ε
ATOM	4517 4518		PHE PHE	71 71	57.694 27.657 83.498 1.00 23.26	E
ATOM	4519			71 72	56.930 26.738 83.832 1.00 9.90 57.359 28.928 83.632 1.00 17.09	E
ATOM	4520			72		E E
ATOM	4521			72	56.068 29.278 84.192 1.00 17.09	E
ATOM	4522	СВ	THR	72	56.158 29.426 85.709 1.00 33.39	E
MOTA	4523	OG [,]	1 THR	72	57.249 30.289 86.052 1.00 33.39	E
ATOM	4524	HG1	THR	72	56.909 31.062 86.510 1.00 0.00	E
ATOM	4525	CG2	2 THR	72	56.390 28.095 86.326 1.00 33.39	E
MOTA	4526			72	55.604 30.586 83.607 1.00 17.09	E
ATOM	4527			72	56.379 31.536 83.533 1.00 33.39	E
MOTA	4528			73	54.356 30.626 83.158 1.00 23.53	E
ATOM ATOM	4529 4530			73 72	53.797 29.829 83.191 1.00 0.00 E	Ξ_
ATOM	4531			73 73	53.794 31.842 82.590 1.00 23.53	E
ATOM	4532			73	52.957 31.514 81.355 1.00 12.55 52.317 32.694 80.658 1.00 12.55	E
ATOM	4533			73	51.166 33.177 81.498 1.00 12.55	E
	- 20			. •	200 00.177 01.480 1.00 12.55	

ATOM	4534 CD2 LEU 73	53.331 33.807 80.497 1.00 12.55 E
ATOM	4535 C LEU 73	52.908 32.336 83.706 1.00 23.53 E
ATOM	4536 O LEU 73	52.154 31.557 84.265 1.00 12.55 E
ATOM	4537 N THR 74	52.965 33.615 84.051 1.00 24.15 E
ATOM	4538 H THR 74	53.540 34.251 83.577 1.00 0.00 E
ATOM	4539 CA THR 74	52.118 34.033 85.152 1.00 24.15 E
ATOM	4540 CB THR 74	52.934 34.137 86.445 1.00 25.10 E
ATOM	4541 OG1 THR 74	52.441 35.222 87.233 1.00 25.10 E
ATOM	4542 HG1 THR 74	52.181 34.909 88.104 1.00 0.00 E
ATOM	4543 CG2 THR 74	
ATOM	4544 C THR 74	51.328 35.315 84.965 1.00 24.15 E
ATOM	4545 O THR 74	51.892 36.319 84.515 1.00 25.10 E
		•
ATOM	4546 N ILE 75	50.024 35.260 85.269 1.00 16.00 E
ATOM	4547 H ILE 75	49.588 34.456 85.522 1.00 0.00 E
ATOM	4548 CA ILE 75	49.176 36.434 85.185 1.00 16.00 E
ATOM	4549 CB ILE 75	47.780 36.114 84.657 1.00 7.96 E
ATOM	4550 CG2 ILE 75	47.159 37.377 84.089 1.00 7.96 E
ATOM	4551 CG1 ILE 75	47.845 35.051 83.575 1.00 7.96 E
ATOM	4552 CD1 ILE 75	-
		46.758 35.151 82.536 1.00 7.96 E
ATOM	4553 C ILE 75	49.024 37.062 86.575 1.00 16.00 E
ATOM	4554 O ILE 75	48.371 36.475 87.483 1.00 7.96 E
ATOM	4555 N SER 76	49.623 38.248 86.737 1.00 48.27 E
ATOM	4556 H SER 76	50.090 38.656 85.975 1.00 0.00 E
ATOM	4557 CA SER 76	49.598 38.979 88.009 1.00 48.27 E
ATOM	4558 CB SER 76	50.082 40.427 87.801 1.00 16.77 E
ATOM	4559 OG SER 76	
		49.599 40.918 86.560 1.00 16.77 E
ATOM	4560 HG SER 76	49.052 41.687 86.704 1.00 0.00 E
ATOM	4561 C SER 76	48.169 38.974 88.549 1.00 48.27 E
		. —
ATOM	4562 O SER 76	47.888 38.383 89.590 1.00 16.77 E
ATOM	4563 N SER 77	47.282 39.634 87.807 1.00 25.66 E
ATOM	4564 H SER 77	47.589 40.098 87.002 1.00 0.00 E
ATOM	4565 CA SER 77	45.877 39.720 88.142 1.00 25.66 E
ATOM	4566 CB SER 77	
		45.552 41.101 88.708 1.00 25.48 E
ATOM	4567 OG SER 77	46.414 42.080 88.148 1.00 25.48 E
ATOM	4568 HG SER 77	47.214 41.668 87.819 1.00 0.00 E
ATOM	4569 C SER 77	45.140 39.497 86.827 1.00 25.66 E
ATOM	4570 O SER 77	45.338 40.212 85.855 1.00 25.48 E
ATOM	4571 N VAL 78	
		44.296 38.484 86.810 1.00 17.15 E
ATOM	4572 H VAL 78	44.188 37.959 87.633 1.00 0.00 E
ATOM	4573 CA VAL 78	43.523 38.120 85.639 1.00 17.15 E
ATOM	4574 CB VAL 78	42.883 36.744 85.873 1.00 30.86 E
ATOM	4575 CG1 VAL 78	41.578 36.622 85.119 1.00 30.86 E
ATOM	4576 CG2 VAL 78	
		43.868 35.648 85.486 1.00 30.86 E
ATOM	4577 C VAL 78	42.423 39.105 85.279 1.00 17.15 E
ATOM	4578 O VAL 78	• • • • • • • • • • • • • • • • • • • •
		41.815 39.703 86.160 1.00 30.86 E
ATOM	4579 N GLU 79	42.178 39.267 83.977 1.00 14.32 E
ATOM	4580 H GLU 79	42.756 38.804 83.338 1.00 0.00 E
ATOM	4581 CA GLU 79	41.097 40.101 83.457 1.00 14.32 E
ATOM	4582 CB GLU 79	41.611 41.053 82.411 1.00 44.25 E
ATOM	4583 CG GLU 79	** * * * * * * * * * * * * * * * * * * *
MOTA	4584 CD GLU 79	41.963 43.501 81.888 1.00 44.25 E
ATOM	4585 OE1 GLU 79	41.745 43.160 80.691 1.00 44.25 E
ATOM		
	4586 OE2 GLU 79	42.110 44.710 82.219 1.00 44.25 E
ATOM	4587 C GLU 79	40.153 39.069 82.828 1.00 14.32 E
ATOM	4588 O GLU 79	48 FAR 4
		40.592 38.040 82.334 1.00 44.25 E
ATOM	4589 N PRO 80	38.847 39.329 82.825 1.00 13.73 E

ATOM	4500	ر ام	o PRO	80	38.128 40.508 83.327 1.00 17.03	_
ATOM			4 PRC		37.928 38.359 82.244 1.00 13.73	
ATOM			3 PRC		36.567 39.012 82.416 1.00 17.03	Ë
ATOM			G PRO			
ATOM			PRO	80	36.748 39.992 83.485 1.00 17.03 38.164 37.988 80.796 1.00 13.73	E
ATOM			PRO	80	37.675 36.947 80.345 1.00 17.03	E
ATOM			GLU	81	38.883 38.819 80.053 1.00 17.03	E
ATOM			GLU	81	39.259 39.607 80.483 1.00 0.00	E
ATOM			A GLU		39.104 38.529 78.649 1.00 20.15	E
ATOM			GLU		39.397 39.793 77.881 1.00 32.36	Ē
ATOM			GLU		39.679 41.006 78.765 1.00 32.36	E
ATOM			GLU		38.476 41.477 79.612 1.00 32.36	Ē
ATOM			E1 GLL		37.521 42.073 79.066 1.00 32.36	E
ATOM			E2 GLL		38.506 41.254 80.838 1.00 32.36	Ē
ATOM			GLU	81	40.237 37.555 78.507 1.00 20.15	E
ATOM	4605	0	GLU	81	40.524 37.104 77.414 1.00 32.36	Ē
ATOM	4606	N	ASP	82	40.841 37.186 79.632 1.00 14.47	Ē
ATOM	4607	' H	ASP	82	40.527 37.556 80.491 1.00 0.00	Ē
ATOM	4608	CA	ASP	82	41.958 36.258 79.605 1.00 14.47	Е
ATOM			3 ASP	82	42.801 36.406 80.885 1.00 10.71	Ε
ATOM	4610	C	S ASP	82	43.612 37.673 80.859 1.00 10.71	Ε
ATOM			D1 ASF		43.639 38.306 79.787 1.00 10.71	Ε
ATOM			D2 ASF		44.201 38.082 81.856 1.00 10.71	Ε
ATOM	4613		ASP	82	41.566 34.838 79.376 1.00 14.47	Ε
ATOM	4614		ASP	82	42.404 33.982 79.187 1.00 10.71	E
ATOM	4615		PHE	83	40.278 34.578 79.378 1.00 21.93	Ε
ATOM	4616		PHE	83	39.624 35.288 79.537 1.00 0.00	Е
MOTA			PHE	83	39.834 33.211 79.169 1.00 21.93	Ε
ATOM ATOM			PHE PHE	83	38.343 33.163 79.033 1.00 4.64	E
ATOM)1 PHE	83	37.880 32.018 78.319 1.00 4.64	Ē
ATOM			2 PHE		37.727 30.819 78.954 1.00 4.64	E
ATOM			1 PHE		37.558 32.114 76.986 1.00 4.64 37.257 29.729 78.275 1.00 4.64	E
ATOM			2 PHE		37.257 29.729 78.275 1.00 4.64 37.081 30.999 76.304 1.00 4.64	E
ATOM			PHE	83	36.939 29.820 76.970 1.00 4.64	E E
ATOM	4625		PHE	83	40.493 32.764 77.900 1.00 21.93	E
ATOM	4626		PHE	83	40.555 33.537 76.942 1.00 4.64	E
ATOM	4627		ALA	84	40.967 31.525 77.874 1.00 3.22	E
ATOM		Н	ALA	84	40.809 30.930 78.630 1.00 0.00	Ē
ATOM	4629	CA	ALA	84	41.698 31.055 76.695 1.00 3.22	Ē
ATOM	4630	CB	ALA	84	42.525 32.171 76.140 1.00 21.04	E
ATOM	4631	С	ALA	84	42.615 29.886 76.983 1.00 3.22	E
ATOM	4632		ALA	84	42.753 29.435 78.122 1.00 21.04	Ε
MOTA	4633		THR	85	43.221 29.344 75.943 1.00 25.05	E
ATOM	4634		THR	85	43.061 29.674 75.036 1.00 0.00	Е
ATOM			THR	85	44.132 28.261 76.217 1.00 25.05	E
MOTA			THR	85	43.922 27.061 75.328 1.00 11.60	Ε
MOTA			1 THR		42.680 26.423 75.657 1.00 11.60	E
ATOM			1 THR 2 THR		42.172 26.978 76.258 1.00 0.00	E
ATOM ATOM	4640			85 85	45.036 26.079 75.580 1.00 11.60	Ē
ATOM			THR THR	85 85	45.516 28.790 76.032 1.00 25.05	E
ATOM	4642		TYR	86	45.772 29.586 75.144 1.00 11.60	Ē
ATOM	4643		TYR	86	46.415 28.375 76.888 1.00 4.02	E
ATOM	4644			86	46.184 27.738 77.596 1.00 0.00 47.762 28.882 76.765 1.00 4.02	E
ATOM	4645			86	48.165 29.623 78.064 1.00 2.85	E E
					79.100 29.020 70.004 1.00 2.85	

ATOM	1616	CG TYR	86	47.316 30.855 78.296 1.00 2.85	E
			86	46.045 30.753 78.849 1.00 2.85	E
ATOM		CD1 TYR		45.235 31.837 78.995 1.00 2.85	Ē
MOTA		CE1 TYR	86		Ē
ATOM		CD2 TYR	86	47.746 32.105 77.905 1.00 2.85	
ATOM		CE2 TYR	86	46.925 33.209 78.050 1.00 2.85	E
MOTA	4651		86	45.664 33.059 78.587 1.00 2.85	Ē
ATOM		OH TYR	86	44.799 34.115 78.586 1.00 2.85	E
ATOM		HH TYR	86	44.088 33.945 77.943 1.00 0.00	E
ATOM	4654	C TYR	86	48.765 27.828 76.398 1.00 4.02	Ε
MOTA	4655	O TYR	86	48.784 26.744 76.979 1.00 2.85	E
ATOM	4656	N TYR	87	49.602 28.160 75.434 1.00 13.22	E
MOTA	4657	H TYR	87	49,551 29,028 75.004 1.00 0.00	Ε
ATOM	4658	CA TYR	87	50.638 27.232 74.994 1.00 13.22	Ε
ATOM	4659	CB TYR	87	50.429 26.851 73.517 1.00 4.78	Ε
ATOM		CG TYR	87	49.051 26.373 73.120 1.00 4.78	Ε
ATOM	4661	CD1 TYR	87	48.686 25.065 73.287 1.00 4.78	E
ATOM		CE1 TYR	87	47.452 24.616 72.858 1.00 4.78	Ε
ATOM		CD2 TYR	87	48.150 27.233 72.512 1.00 4.78	E
ATOM		CE2 TYR	87	46.927 26.807 72.085 1.00 4.78	Ē
ATOM		CZ TYR	87	46.575 25.489 72.262 1.00 4.78	E
ATOM		OH TYR	87	45.323 25.052 71.860 1.00 4.78	Ē
ATOM		HH TYR	87	45.380 24.699 70.968 1.00 0.00	E
ATOM	4668	C TYR	87	52.105 27.718 75.136 1.00 13.22	Ē
ATOM		O TYR	87	52.103 27.718 73.138 1.00 13.22	Ē
	4669			52.978 26.806 75.549 1.00 17.16	E
MOTA			88		
ATOM		H CYS	88	52.675 25.913 75.828 1.00 0.00	E
ATOM		CA CYS	88	54.394 27.090 75.603 1.00 17.16	E
ATOM	4673	C CYS	88	54.905 26.358 74.327 1.00 17.16	E
MOTA		O CYS	88	54.331 25.343 73.897 1.00 16.28	E
ATOM		CB CYS	88	55.048 26.516 76.887 1.00 16.28	E
MOTA		SG CYS	88	54.927 24.711 77.041 1.00 16.28	E
MOTA	4677		89	55.949 26.901 73.696 1.00 21.40	E
ATOM		H GLN	89	56.346 27.728 74.044 1.00 0.00	E
ATOM		CA GLN	89	56.537 26.294 72.475 1.00 21.40	Ε
ATOM	4680	CB GLN	89	55.890 26.922 71.228 1.00 9.23	Ε
ATOM	4681	CG GLN	89	56.523 26.619 69.902 1.00 9.23	Ε
ATOM		CD GLN	89	57.598 27.624 69.550 1.00 9.23	Ε
MOTA		OE1 GLN	89	57.416 28.811 69.764 1.00 9.23	E
ATOM		NE2 GLN	89	58.748 27.137 69.027 1.00 9.23	Ε
ATOM	4685	HE21 GLN	89	59.596 27.513 69.377 1.00 0.00	Ε
ATOM	4686	HE22 GLN	89	58.690 26.453 68.346 1.00 0.00	Ε
ATOM	4687	C GLN	89	58.054 26.506 72.499 1.00 21.40	E
MOTA	4688	O GLN	89	58.565 27.631 72.697 1.00 9.23	E
ATOM	4689	N HIS	90	58.786 25.411 72.345 1.00 25.99	E
ATOM	4690	H HIS	90	58.350 24.539 72.214 1.00 0.00	Ε
ATOM	4691	CA HIS	90	60.261 25,503 72,380 1.00 25.99	Ε
MOTA		CB HIS	90	60.912 24.289 73.064 1.00 31.76	Ε
ATOM		CG HIS	90	61.293 23.203 72.126 1.00 31.76	E
ATOM		CD2 HIS	90	60.600 22.136 71.663 1.00 31.76	E
ATOM		ND1 HIS	90	62.511 23.178 71.498 1.00 31.76	Ē
ATOM		HD1 HIS	90	63.240 23.816 71.633 1.00 0.00	Ē
ATOM		CE1 HIS	90	62.554 22.141 70.677 1.00 31.76	Ē
ATOM		NE2 HIS	90	61.407 21.492 70.759 1.00 31.76	E
ATOM		HE2 HIS	90	61.183 20.681 70.246 1.00 0.00	E
ATOM			90	60.801 25.652 71.007 1.00 25.99	E
ATOM	4701		90	60.188 25.240 70.014 1.00 31.76	Ē
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ATOM	4702	N SER	91	61.949 26.284 70.944 1.00 27.85	Ε
ATOM	4703		91	62.372 26.589 71.753 1.00 0.00	E
ATOM		CA SER		62.586 26.525 69.657 1.00 27.85	E
ATOM	4705	CB SER	91	62.303 27.971 69.187 1.00 17.33	Ε
ATOM	4706	OG SER	91	63.229 28.921 69.718 1.00 17.33	E
ATOM	4707	HG SER	91	63.857 29.163 69.030 1.00 0.00	Ε
ATOM	4708	C SER	91	64.076 26.264 69.806 1.00 27.85	Ε
ATOM	4709	O SER	91	64.886 26.820 69.112 1.00 17.33	Ε
ATOM	4710		92	64.409 25.403 70.743 1.00 26.57	Ε
ATOM	4711		92	63.705 24.991 71.282 1.00 0.00	E
ATOM		CA TRP	92	65.790 25.048 71.006 1.00 26.57	Ε
ATOM		CB TRP	92	65.882 24.116 72.210 1.00 9.16	E
MOTA		CG TRP		67.273 23.556 72.435 1.00 9.16	E
MOTA MOTA		CD2 TRP			E
ATOM		CE3 TRP			E
ATOM		CD1 TRP			E
ATOM		NE1 TRP			E
ATOM		HE1 TRP			Ē
ATOM		CZ2 TRP		70.602 23.583 73.869 1.00 9.16	Ē
ATOM		CZ3 TRP		69.746 25.820 74.236 1.00 9.16	Ē
MOTA	4723	CH2 TRP			Ε
MOTA	4724	C TRP	92	66.413 24.312 69.856 1.00 26.57	Ε
MOTA	4725		92	67.648 24.240 69.755 1.00 9.16	Ε
MOTA	4726		93	65.537 23.758 69.016 1.00 22.26	Ε
MOTA	4727		93	64.592 23.902 69.175 1.00 0.00	E
MOTA		CA GLU	93	65.948 22.961 67.890 1.00 22.26	E
ATOM		CB GLU	93	66.421 21.609 68.399 1.00 45.54	E
MOTA MOTA		CG GLU	93 93	65.297 20.611 68.422 1.00 45.54 65.752 19.266 68.872 1.00 45.54	E
ATOM		OE1 GLU			E E
ATOM		OE2 GLU			
ATOM	4734		93	64.844 22.721 66.859 1.00 22.26	E
ATOM	4735		93	63.768 23.346 66.908 1.00 45.54	Ē
MOTA	4736	N ILE	94	65.130 21.811 65.914 1.00 25.89	E
ATOM	4737		94	66.007 21.372 65.922 1.00 0.00	Ε
ATOM		CA ILE	94	64.181 21.460 64.876 1.00 25.89	Ε
MOTA		CB ILE	94	64.797 21.550 63.445 1.00 12.86	E
MOTA		CG2 ILE	94	64.037 20.636 62.500 1.00 12.86	E
ATOM ATOM		CG1 ILE	94	64.693 22.984 62.909 1.00 12.86	Ε
ATOM	4743		94 94	64.934 23.108 61.400 1.00 12.86	Ē
ATOM	4744		94	63.785 20.042 65.168 1.00 25.89 64.642 19.211 65.447 1.00 12.86	E
ATOM	4745		95	62.468 19.755 65.178 1.00 17.13	E E
ATOM		CD PRO	95	61.979 18.387 65.476 1.00 17.56	E
ATOM		CA PRO	95	61.352 20.682 64.935 1.00 17.13	Ē
ATOM	4748	CB PRO	95	60.244 19.765 64.446 1.00 17.56	Ē
ATOM		CG PRO	95	60.467 18.513 65.318 1.00 17.56	E
MOTA	4750		95	60.967 21.304 66.256 1.00 17.13	E
ATOM		O PRO	95	61.124 20.672 67.294 1.00 17.56	E
MOTA	4752		96	60.413 22.536 66.245 1.00 18.86	E
ATOM ATOM		CD PRO	96	60.014 23.419 65.128 1.00 18.16	E
ATOM		CB PRO	96 96	60.046 23.105 67.540 1.00 18.86	E
ATOM		CG PRO	96 96	59.830 24.580 67.245 1.00 18.16 59.387 24.603 65.820 1.00 18.16	E
ATOM		C PRO	96	58.756 22.403 67.869 1.00 18.86	E
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ATOM 4766 C THR 97 ATOM 4767 O THR 97 ATOM 4767 O THR 97 ATOM 4768 N PHE 98 ATOM 4769 H PHE 98 ATOM 4770 CA PHE 98 ATOM 4771 CB PHE 98 ATOM 4773 CD1 PHE 98 ATOM 4775 CE1 PHE 98 ATOM 4776 CE2 PHE 98 ATOM 4776 CE2 PHE 98 ATOM 4777 CZ PHE 98 ATOM 4777 CZ PHE 98 ATOM 4777 CZ PHE 98 ATOM 4778 C PHE 98 ATOM 4778 C PHE 98 ATOM 4780 N GLY 99 ATOM 4781 H GLY 99 ATOM 4782 CA GLY 99 ATOM 4786 C GLY 99 ATOM 4786 C GLY 100 ATOM 4787 C GLY 99 ATOM 4788 C GLY 100 ATOM 4788 C GLY 100 ATOM 4788 C GLY 100 ATOM 4788 C GLY 100 ATOM 4788 C GLY 100 ATOM 4780 N GLY 101 ATOM 4780 N GLY 100 ATOM 4781 H GLY 101 ATOM 4785 N GLY 100 ATOM 4786 C GLY 100 ATOM 4787 CA GLY 100 ATOM 4787 CA GLY 101 ATOM 4788 C GLY 101 ATOM 4789 O GLY 101 ATOM 4790 N GLY 101 ATOM 4791 H GLY 101 ATOM 4792 CA GLY 101 ATOM 4793 C GLY 101 ATOM 4793 C GLY 101 ATOM 4794 O GLY 101 ATOM 4795 N THR 102 ATOM 4796 CB THR 102 ATOM 4797 CA THR 102 ATOM 4798 CB THR 102 ATOM 4798 CB THR 102 ATOM 4798 CB THR 102 ATOM 4798 CB THR 102 ATOM 4798 CB THR 102 ATOM 4799 OG1 THR 102 ATOM 4799 OG1 THR 102 ATOM 4799 OG1 THR 102 ATOM 4799 OG1 THR 102 ATOM 4799 OG1 THR 102 ATOM 4799 OG1 THR 102 ATOM 4799 OG1 THR 102 ATOM 4799 OG1 THR 102 ATOM 4799 OG1 THR 102 ATOM 4799 OG1 THR 102 ATOM 4799 OG1 THR 102 ATOM 4799 OG1 THR 102 ATOM 4790 NG1 THR 102 ATOM 4790 NG1 THR 102 ATOM 4790 NG1 THR 102 ATOM 4797 CA THR 102 ATOM 4798 CB THR 102 ATOM 4799 OG1 THR 102 ATOM 4798 CB THR 102 ATOM 4799 OG1 THR 102 ATOM 4799 OG1 THR 102 ATOM 4790 NG1				
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ATOM 4760 H THR 97 ATOM 4761 CA THR 97 ATOM 4762 CB THR 97 ATOM 4762 CB THR 97 ATOM 4763 OG1 THR 97 ATOM 4763 OG1 THR 97 ATOM 4765 CG2 THR 97 ATOM 4766 C THR 97 ATOM 4766 C THR 97 ATOM 4766 C THR 97 ATOM 4767 O THR 97 ATOM 4768 N PHE 98 ATOM 4769 H PHE 98 ATOM 4770 CA PHE 98 ATOM 4771 CB PHE 98 ATOM 4771 CB PHE 98 ATOM 4772 CG PHE 98 ATOM 4775 CE1 PHE 98 ATOM 4776 CE2 PHE 98 ATOM 4776 CE2 PHE 98 ATOM 4776 CE2 PHE 98 ATOM 4776 CE2 PHE 98 ATOM 4776 CE2 PHE 98 ATOM 4776 CE2 PHE 98 ATOM 4776 CE2 PHE 98 ATOM 4776 CE2 PHE 98 ATOM 4776 CE2 PHE 98 ATOM 4776 CE2 PHE 98 ATOM 4776 CE2 PHE 98 ATOM 4776 CE2 PHE 98 ATOM 4776 CE2 PHE 98 ATOM 4776 CE3 PHE 98 ATOM 4776 CE3 PHE 98 ATOM 4776 CE3 PHE 98 ATOM 4776 CE3 PHE 98 ATOM 4776 CB PHE 98 ATOM 4776 CB PHE 98 ATOM 4776 CB PHE 98 ATOM 4776 CB PHE 98 ATOM 4776 CB PHE 98 ATOM 4778 C PHE 98 ATOM 4778 C PHE 98 ATOM 4781 H GLY 99 ATOM 4782 CA GLY 99 ATOM 4782 CA GLY 99 ATOM 4784 O GLY 99 ATOM 4786 C GLY 100 ATOM 4787 CA GLY 100 ATOM 4787 CA GLY 101 ATOM 4789 O GLY 101 ATOM 4789 C GLY 101 ATOM 4799 H GLY 101 ATOM 4799 C GLY 101 ATOM 4799 C GLY 101 ATOM 4799 C GLY 101 ATOM 4799 C GLY 101 ATOM 4799 C GLY 101 ATOM 4799 C GLY 101 ATOM 4799 C GLY 101 ATOM 4799 C GLY 101 ATOM 4799 C GLY 101 ATOM 4799 C GLY 101 ATOM 4799 C GLY 101 ATOM 4799 C GLY 101 ATOM 4799 C GLY 101 ATOM 4799 C GLY 101 ATOM 4799 C GLY 101 ATOM 4799 C GLY 101 ATOM 4799 C GLY 101 ATOM 4799 C GLY 101 ATOM 4800 C C THR 102 ATOM 4800 C LYS 103 ATOM 4800 C LYS 103 ATOM 4800 C LYS 103 ATOM 4800 C LYS 103 ATOM 4800 C LYS 103 ATOM 4800 C LYS 103 ATOM 4800 C LYS 103 ATOM 4800 C LYS 103 ATOM 4801 C LYS 103 ATOM 4801 C LYS 103 ATOM 4801 C LYS 103 ATOM 4801 C LYS 103 ATOM 4801 C LYS 103 ATOM 4801 C LYS 103 ATOM 4801 C LYS 103 ATOM 4801 C LYS 103 ATOM 4801 C LYS 103 ATOM 4801 C LYS 103 ATOM 4801 C LYS 103 ATOM 4801 C LYS 103 ATOM 4801 C LYS 103 ATOM 4801 C LYS 103 ATOM 4801 C LYS 103 ATOM 4801 C				
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ATOM 4796 H THR 102 47.122 25.333 77.862 1.00 0.00 E ATOM 4797 CA THR 102 46.538 24.610 79.755 1.00 15.16 E ATOM 4798 CB THR 102 47.519 25.351 80.779 1.00 14.99 E ATOM 4800 HG1 THR 102 48.499 24.452 81.306 1.00 14.99 E ATOM 4801 CG2 THR 102 46.732 25.923 81.966 1.00 14.99 E ATOM 4802 C THR 102 45.344 25.540 79.545 1.00 15.16 E ATOM 4803 O THR 102 45.506 26.696 79.119 1.00 14.99 E ATOM 4804 N LYS 103 44.146 25.047 79.810 1.00 23.54 E ATOM 4805 H LYS 103 44.018 24.124 80.078 1.00 0.00 E ATOM 4806 CA LYS 103 42.981 25.897 79.679 1.00 23.54 E ATOM 4807 CB LYS 103 41.746 25.029 79.366 1.00 19.27 E ATOM 4808 CG LYS 103 41.520 24.808 77.890 1.00 19.27 E ATOM 4810 CE LYS 103 40.041 23.628 76.292 1.00 19.27 E ATOM 4811 NZ LYS 103 39.120 22.520 74.755 1.00 0.00 E			•	
ATOM 4797 CA THR 102 46.538 24.610 79.755 1.00 15.16 E ATOM 4798 CB THR 102 47.519 25.351 80.779 1.00 14.99 E ATOM 4800 HG1 THR 102 48.499 24.452 81.306 1.00 14.99 E ATOM 4801 CG2 THR 102 46.732 25.923 81.966 1.00 14.99 E ATOM 4802 C THR 102 45.344 25.540 79.545 1.00 15.16 E ATOM 4803 O THR 102 45.506 26.696 79.119 1.00 14.99 E ATOM 4804 N LYS 103 44.146 25.047 79.810 1.00 23.54 E ATOM 4805 H LYS 103 44.018 24.124 80.078 1.00 0.00 E ATOM 4806 CA LYS 103 42.981 25.897 79.679 1.00 23.54 E ATOM 4807 CB LYS 103 41.746 25.029 79.366 1.00 19.27 E ATOM 4809 CD LYS 103 40.888 23.496 77.573 1.00 19.27 E ATOM 4810 CE LYS 103 40.041 23.628 76.292 1.00 19.27 E ATOM 4811 NZ LYS 103 39.644 22.318 75.620 1.00 19.27 E ATOM 4812 HZ1 LYS 103 39.120 22.520 74.755 1.00 0.00 E				
ATOM 4798 CB THR 102				_
ATOM 4800 HG1 THR 102 49.013 24.071 80.587 1.00 0.00 EATOM 4801 CG2 THR 102 46.732 25.923 81.966 1.00 14.99 EATOM 4802 C THR 102 45.344 25.540 79.545 1.00 15.16 EATOM 4803 O THR 102 45.506 26.696 79.119 1.00 14.99 EATOM 4804 N LYS 103 44.146 25.047 79.810 1.00 23.54 EATOM 4805 H LYS 103 44.018 24.124 80.078 1.00 0.00 EATOM 4806 CA LYS 103 42.981 25.897 79.679 1.00 23.54 EATOM 4807 CB LYS 103 41.746 25.029 79.366 1.00 19.27 EATOM 4808 CG LYS 103 41.520 24.808 77.890 1.00 19.27 EATOM 4810 CE LYS 103 40.848 23.496 77.573 1.00 19.27 EATOM 4811 NZ LYS 103 39.644 22.318 75.620 1.00 19.27 EATOM 4812 HZ1 LYS 103 39.120 22.520 74.755 1.00 0.00 E				Ē
ATOM 4800 HG1 THR 102 ATOM 4801 CG2 THR 102 ATOM 4802 C THR 102 ATOM 4803 O THR 102 ATOM 4804 N LYS 103 ATOM 4805 H LYS 103 ATOM 4806 CA LYS 103 ATOM 4807 CB LYS 103 ATOM 4808 CG LYS 103 ATOM 4808 CG LYS 103 ATOM 4809 CD LYS 103 ATOM 4810 CE LYS 103 ATOM 4811 NZ LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4811 NZ LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4811 NZ LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4811 NZ LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4811 NZ LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4811 NZ LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4811 NZ LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4811 NZ LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4811 NZ LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4811 NZ LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4811 NZ LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4811 NZ LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4812 HZ1 LYS 103 ATOM 4812 HZ1 LYS 103				Ē
ATOM 4802 C THR 102 45.344 25.540 79.545 1.00 15.16 E ATOM 4803 O THR 102 45.506 26.696 79.119 1.00 14.99 E ATOM 4804 N LYS 103 44.146 25.047 79.810 1.00 23.54 E ATOM 4805 H LYS 103 44.018 24.124 80.078 1.00 0.00 E ATOM 4807 CB LYS 103 41.746 25.029 79.366 1.00 19.27 E ATOM 4808 CG LYS 103 41.520 24.808 77.890 1.00 19.27 E ATOM 4810 CE LYS 103 40.888 23.496 77.573 1.00 19.27 E ATOM 4811 NZ LYS 103 39.644 22.318 75.620 1.00 19.27 E ATOM 4812 HZ1 LYS 103 39.120 22.520 74.755 1.00 0.00 E	MOTA		49.013 24.071 80.587 1.00 0.00	Ε
ATOM 4803 O THR 102 45.506 26.696 79.119 1.00 14.99 E ATOM 4804 N LYS 103 44.146 25.047 79.810 1.00 23.54 E ATOM 4805 H LYS 103 44.018 24.124 80.078 1.00 0.00 E ATOM 4806 CA LYS 103 42.981 25.897 79.679 1.00 23.54 E ATOM 4807 CB LYS 103 41.746 25.029 79.366 1.00 19.27 E ATOM 4808 CG LYS 103 41.520 24.808 77.890 1.00 19.27 E ATOM 4810 CE LYS 103 40.041 23.628 76.292 1.00 19.27 E ATOM 4811 NZ LYS 103 39.644 22.318 75.620 1.00 19.27 E ATOM 4812 HZ1 LYS 103 39.120 22.520 74.755 1.00 0.00 E	MOTA		46.732 25.923 81.966 1.00 14.99	Ε
ATOM 4804 N LYS 103				
ATOM 4805 H LYS 103		· · · · · · · · · · · · · · · · · · ·		
ATOM 4806 CA LYS 103 42.981 25.897 79.679 1.00 23.54 E ATOM 4807 CB LYS 103 41.746 25.029 79.366 1.00 19.27 E ATOM 4808 CG LYS 103 41.520 24.808 77.890 1.00 19.27 E ATOM 4809 CD LYS 103 40.888 23.496 77.573 1.00 19.27 E ATOM 4810 CE LYS 103 40.041 23.628 76.292 1.00 19.27 E ATOM 4811 NZ LYS 103 39.644 22.318 75.620 1.00 19.27 E ATOM 4812 HZ1 LYS 103 39.120 22.520 74.755 1.00 0.00 E				
ATOM 4807 CB LYS 103 41.746 25.029 79.366 1.00 19.27 E ATOM 4808 CG LYS 103 41.520 24.808 77.890 1.00 19.27 E ATOM 4809 CD LYS 103 40.888 23.496 77.573 1.00 19.27 E ATOM 4810 CE LYS 103 40.041 23.628 76.292 1.00 19.27 E ATOM 4811 NZ LYS 103 39.644 22.318 75.620 1.00 19.27 E ATOM 4812 HZ1 LYS 103 39.120 22.520 74.755 1.00 0.00 E				
ATOM 4808 CG LYS 103 41.520 24.808 77.890 1.00 19.27 E ATOM 4809 CD LYS 103 40.888 23.496 77.573 1.00 19.27 E ATOM 4810 CE LYS 103 40.041 23.628 76.292 1.00 19.27 E ATOM 4811 NZ LYS 103 39.644 22.318 75.620 1.00 19.27 E ATOM 4812 HZ1 LYS 103 39.120 22.520 74.755 1.00 0.00 E				
ATOM 4809 CD LYS 103				
ATOM 4810 CE LYS 103 40.041 23.628 76.292 1.00 19.27 E ATOM 4811 NZ LYS 103 39.644 22.318 75.620 1.00 19.27 E ATOM 4812 HZ1 LYS 103 39.120 22.520 74.755 1.00 0.00 E				
ATOM 4811 NZ LYS 103 39.644 22.318 75.620 1.00 19.27 E ATOM 4812 HZ1 LYS 103 39.120 22.520 74.755 1.00 0.00 E				
ATOM 4812 HZ1 LYS 103 39.120 22.520 74.755 1.00 0.00 E				
	MOTA	4812 HZ1 LYS 103		
	MOTA	4813 HZ2 LYS 103		

ATOM	1911	HZ3 LYS	103	40.510 21.779 75.377 1.00 0.00	Ε
ATOM					
	4815		103	42.784 26.731 80.975 1.00 23.54	Ē
MOTA	4816		103	42.818 26.214 82.124 1.00 19.27	E
MOTA	4817		104	42.611 28.030 80.804 1.00 9.61	E
ATOM	4818	H LEU	104	42.646 28.425 79.919 1.00 0.00	E
ATOM	4819	CA LEU	104	42.379 28.876 81.956 1.00 9.61	Ε
ATOM	4820			43.237 30.135 81.853 1.00 16.97	Ε
ATOM	4821			42.719 31.416 82.497 1.00 16.97	E
ATOM		CD1 LE			Ē
ATOM		CD2 LEU			Ē
ATOM	4824		104		
				40.907 29.233 81.914 1.00 9.61	Ē
ATOM	4825		104	40.422 29.756 80.908 1.00 16.97	E
ATOM	4826		105	40.178 28.926 82.974 1.00 27.68	Ε
ATOM	4827		105	40.591 28.473 83.730 1.00 0.00	Ε
ATOM		CA GLU		38.758 29.273 83.014 1.00 27.68	Ε
ATOM		CB GLU		37.936 28.043 83.357 1.00 27.29	E
ATOM	4830	CG GLL	105	38.545 26.731 82.916 1.00 27.29	Ε
ATOM	4831	CD GLU	105	37.584 25.572 83.095 1.00 27.29	E
ATOM	4832	OE1 GLU			
ATOM		OE2 GLU			
ATOM	4834		105	38.517 30.392 84.059 1.00 27.68	E
ATOM	4835		105	39.222 30.467 85.066 1.00 27.29	E
ATOM	4836		106	37.520 31.244 83.818 1.00 7.59	
ATOM	4837	-	106		E
ATOM				36.969 31.114 83.014 1.00 0.00	E_
		CA ILE	106	37.231 32.337 84.719 1.00 7.59	E
ATOM	4839	CB ILE	106	36.999 33.576 83.999 1.00 9.20	E
MOTA		CG2 ILE	106	36.867 34.702 85.022 1.00 9.20	Ε
MOTA	4841	CG1 ILE	106	38.086 33.783 82.952 1.00 9.20	E
ATOM		CD1 ILE	106	39.414 33.471 83.412 1.00 9.20	Ε
ATOM	4843		106	36.056 32.231 85.680 1.00 7.59	Ε
ATOM	4844	O ILE	106	34.886 32.266 85.296 1.00 9.20	Ε
MOTA	4845	N LYS	107	36.384 32.146 86.956 1.00 18.88	Ε
ATOM	4846	H LYS	107	37.331 32.133 87.210 1.00 0.00	Ε
ATOM	4847	CA LYS	107	35.387 32.075 87.992 1.00 18.88	E
MOTA	4848	CB LYS	107	36.099 31.935 89.327 1.00 29.13	Ē
MOTA		CG LYS	107	37.043 30.739 89.280 1.00 29.13	Ē
ATOM		CD LYS	107	37.053 29.901 90.534 1.00 29.13	Ē
MOTA	4851	CE LYS	107	38.117 30.392 91.501 1.00 29.13	Ē
ATOM		NZ LYS	107	37.723 30.163 92.953 1.00 29.13	E
ATOM	4853	HZ1 LYS	107	36.984 30.858 93.255 1.00 0.00	
ATOM		HZ2 LYS	107		E
ATOM		HZ3 LYS			E
ATOM	4856		107	37.352 29.218 93.038 1.00 0.00	E
ATOM			107	34.507 33.300 87.886 1.00 18.88	Ε
	4857		107	34.971 34.340 87.318 1.00 29.13	Ε
ATOM	4858		108	33.229 33.088 88.381 1.00 2.00	E
ATOM	4859		108	32.819 32.227 88.867 1.00 0.00	E
ATOM		CA ARG	108	32.235 34.149 88.243 1.00 2.00	Ε
MOTA		CB ARG	108	31.909 34.189 86.764 1.00 12.37	E
ATOM		CG ARG		31.071 35.247 86.282 1.00 12.37	Ε
ATOM		CD ARG	108	29.904 34.675 85.584 1.00 12.37	Ē
MOTA	4864	NE ARG	108	28.746 35.340 86.167 1.00 12.37	Ē
ATOM	4865	HE ARG	108	28.155 34.858 86.775 1.00 0.00	Ē
ATOM	4866	CZ ARG	108	28.437 36.600 85.913 1.00 12.37	Ē
MOTA	4867	NH1 ARG	108	29.205 37.289 85.095 1.00 12.37	E
		HH11 ARG		30.047 37.710 85.424 1.00 0.00	
		H12 ARG		28.922 37.401 84.140 1.00 0.00	E
			- 100	20.022 37.401 04.140 1.00 0.00	Ε

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ATOM	4870 NH2 ARG 108	27.411 37.166 86.530 1.00 12.37	Е
ATOM	4871 HH21 ARG 108		
ATOM	4872 HH22 ARG 108		
		31.001 33.895 89.062 1.00 2.00	E
ATOM	4873 C ARG 108	30.688 32.787 89,430 1.00 12.37	E
ATOM	4874 O ARG 108		
ATOM	4875 N THR 109	30.274 34.926 89.358 1.00 2.00	Ē
MOTA	4876 H THR 109	30.535 35.819 89.071 1.00 0.00	E
ATOM	4877 CA THR 109	29.063 34.750 90.157 1.00 2.00	Ē
ATOM	4878 CB THR 109	28.550 36.129 90.537 1.00 14.31	E
ATOM	4879 OG1 THR 109	29.262 36.605 91.684 1.00 14.31	E
ATOM	4880 HG1 THR 109	29.617 35.842 92.158 1.00 0.00	E
ATOM	4881 CG2 THR 109	27.096 36.097 90.805 1.00 14.31	_ E
ATOM	4882 C THR 109	27.954 34.018 89.409 1.00 2.00	E
ATOM	4883 O THR 109	27.876 34.057 88.185 1.00 14.31	E
ATOM	4884 N VAL 110	27.048 33.402 90.151 1.00 9.65	Ε
MOTA	4885 H VAL 110	27.121 33.416 91.128 1.00 0.00	Ε
ATOM	4886 CA VAL 110	25.943 32.699 89.512 1.00 9.65	Ε
MOTA	4887 CB VAL 110	25.096 31.907 90.573 1.00 2.00	E
ATOM	4888 CG1 VAL 110	23.704 31.645 90.037 1.00 2.00	Ε
ATOM	4889 CG2 VAL 110	25.730 30.601 90.885 1.00 2.00	Ε
ATOM	4890 C VAL 110	25.089 33.729 88.770 1.00 9.65	Ε
ATOM	4891 O VAL 110	24.969 34.853 89.247 1.00 2.00	Ε
ATOM	4892 N ALA 111	24.519 33.378 87.616 1.00 15.04	E
MOTA	4893 H ALA 111	24.661 32.476 87.281 1.00 0.00	Ε
ATOM	4894 CA ALA 111	23.673 34.315 86.846 1.00 15.04	Ε
ATOM	4895 CB ALA 111	24.514 35.157 85.952 1.00 5.53	E
ATOM	4896 C ALA 111	22.603 33.592 86.010 1.00 15.04	Ε
MOTA	4897 O ALA 111	22.910 32.678 85.229 1.00 5.53	E
ATOM	4898 N ALA 112	21.349 34.008 86.173 1.00 7.05	Ε
MOTA	4899 H ALA 112	21.198 34.751 86.788 1.00 0.00	Ε
ATOM	4900 CA ALA 112	20.221 33.397 85.502 1.00 7.05	E
ATOM	4901 CB ALA 112	18.950 33.759 86.223 1.00 24.15	Ε
ATOM	4902 C ALA 112	20.131 33.812 84.039 1.00 7.05	Ε
ATOM	4903 O ALA 112	20.347 34.960 83.713 1.00 24.15	Ε
ATOM	4904 N PRO 113	19.749 32.890 83.138 1.00 2.68	Ε
MOTA	4905 CD PRO 113	19.337 31.494 83.321 1.00 11.52	Ε
MOTA	4906 CA PRO 113	19.678 33.289 81.743 1.00 2.68	Ε
MOTA	4907 CB PRO 113	19.537 31.971 81.027 1.00 11.52	Ε
ATOM	4908 CG PRO 113	18.831 31.129 81.975 1.00 11.52	Ε
ATOM	4909 C PRO 113	18.543 34.221 81.391 1.00 2.68	E
ATOM	4910 O PRO 113	17.582 34.372 82.130 1.00 11.52	E
ATOM	4911 N SER 114	18.675 34.860 80.247 1.00 4.54	Ε
ATOM	4912 H SER 114	19.506 34.761 79.740 1.00 0.00	Ε
ATOM	4913 CA SER 114	17.631 35.726 79.717 1.00 4.54	Ε
ATOM	4914 CB SER 114	18.196 37.062 79.294 1.00 9.90	E
ATOM	4915 OG SER 114	18.328 37.827 80.465 1.00 9.90	E
ATOM	4916 HG SER 114	18.421 37.234 81.222 1.00 0.00	E
ATOM	4917 C SER 114		E
ATOM	4918 O SER 114	17.775 34.874 77.467 1.00 9.90	E
ATOM	4919 N VAL 115	15.965 34.358 78.666 1.00 2.26	E
ATOM	4920 H VAL 115	15.473 34.556 79.493 1.00 0.00	Ε
MOTA	4921 CA VAL 115	15.451 33.510 77.658 1.00 2.26	E
ATOM	4922 CB VAL 115	14.857 32.331 78.373 1.00 5.89	E
ATOM	4923 CG1 VAL 115	14.140 32.810 79.553 1.00 5.89	E
	4924 CG2 VAL 115	13.985 31.569 77.469 1.00 5.89	E
MOTA	4925 C VAL 115	14.543 34.116 76.577 1.00 2.26	E

ATON	1 492	6 O VAL	. 115	13 470	34.602	76 910	1.00 5	00	=
ATON					34.056				E
ATON					33.651				E
ATON					34.560				E
ATON		O CB PH			35.399				E
ATON					36.523				Ë
ATON		2 CD1 PH			37.721				E
ATON		CD2 PF			36.396				E
ATOM		CE1 PH			38.762				E
ATOM	4935	CE2 PH			37.439				Ē
ATOM		CZ PHI			38.623				E
ATOM	4937	7 C PHE		13.816	33.437	73.308	1.00 6.0	09	E
ATOM	4938	O PHE	116	14.474	32.417	73.142	1.00 8.	13	Ε
ATOM	4939	N ILE	117	12.603 3	3.599 72	2.775 1	.00 2.0	2	E
ATOM			117	12.110 3	4.430 72	2.969 1	.00 0.00		E
ATOM		CA ILE		11.970			1.00 2.0		Ε
ATOM		CB ILE		10.588	32.086 7	2.585	1.00 6.2	22	Е
ATOM		CG2 ILE		9.425	32.937 7	72.173	1.00 6.2	22	Ε
ATOM		CG1 ILE			30.652				Ε
ATOM		CD1 ILE		10.047	30.534	70.718	1.00 6.3	22	E
ATOM				11.812 33	3.126 70).467 1.	.00 2.02	2 E	Ξ
ATOM ATOM			117	11.456 3	4.276 70	0.262 1.	.00 6.22	2 1	E
ATOM				12.105	32.314 6	9.457	1.00 19.	88	E
ATOM		H PHE		12.347	31.398 6	9.664	1.00 0.0	00	E
ATOM	4951			12.037	32.770				Ε
ATOM		CG PHE			32.815		1.00 2.	.00	E
ATOM		CD1 PH		13 070	33.996 35.250	67.043	1.00 2.		E
ATOM		CD2 PH			33.873				E
ATOM		CE1 PH			36.351		1.00 2		E
ATOM		CE2 PHI			34.969		1.00 2		E
MOTA	4957	CZ PHE		15.609	36.214 (38.761	1.00 2.0		E
ATOM	4958	C PHE	118	11.152 3					E
ATOM	4959		118	11.379	30.802 6		.00 2.0		Ē
MOTA	4960		119	10.132	32.600 6	6.546 1	1.00 3.4	18	E
MOTA	4961	CD PRO			33.957		1.00 2.0	00	E
ATOM		CA PRO			31.733 6		1.00 3.4		E
ATOM ATOM		CB PRC			32.433 6		1.00 2.0	00	E
ATOM		CG PRO		8.089	33.698	6.642	1.00 2.0	00	E
ATOM	4966	-	119	9.932 3	1.602 64	1.280 1.	.00 3.48	В	Ε
ATOM	4967		119 120	10.934 3	32.229 6	3.996 1	.00 2.0	00	E
ATOM		CD PRO		9.387 3	0.718 63	3.43/ 1.	.00 2.63	3	<u> </u>
ATOM		CA PRO	120	10.017	29.644 6	3.549	1.00 2.0) 9	E
ATOM	4970	CB PRO	120	9 601 7	30.673 <i>6</i> 29.275 6	02.130 1.606 4	1.00 2.6	63	Ε
MOTA		CG PRC		8 379 3	28.986 6	2 164 4	1.00 2.0	19	E
MOTA			120	9.646 3	1 755 61	125 1	00 2.C		E
MOTA			120	8.557 3	2.298 61	1.062 1	00 2.00		E E
MOTA	4974	N SER	121	10.658 3	2.004 60	0.337 1	00 56		E E
MOTA	4975	H SER	121	11.458 3	1.483 60	0.560 1	.00 0.01		E
MOTA		CA SER	121	10.714 3	32.905 5	9.229 1	1.00 5 6	57	E
MOTA		CB SER	121	12.081 3	32.671 5	8.587 1	1.00 17.3	37	E
MOTA	4978	OG SER		12.767	31.654 5	9.376	1.00 17.	37	Ē
MOTA		HG SER		13.244	32.044 6	0.099	1.00 0.0	00	Ē
MOTA	4980	-	121	9.623 32	.592 58	.219 1.0	00 5.67	F	
MOTA	4981	O SER	121	9.545 31	.483 57	.747 1.0	00 17.37	7	E

ATOM	4982 N ASP 122	8.776 33.559 57.900 1.00 18.93	E
MOTA	4983 H ASP 122	8.843 34.436 58.327 1.00 0.00	Ε
MOTA	4984 CA ASP 122	7.763 33.281 56.913 1.00 18.93	Ε
MOTA	4985 CB ASP 122	6.941 34.551 56.603 1.00 24.59	Ε
MOTA	4986 CG ASP 122	5.689 34.668 57.473 1.00 24.59	Ε
MOTA	4987 OD1 ASP 122	5.422 33.742 58.271 1.00 24.59	E
MOTA	4988 OD2 ASP 122	4.966 35.696 57.366 1.00 24.59	E
MOTA	4989 C ASP 122	8.561 32.771 55.688 1.00 18.93	Ε
MOTA	4990 O ASP 122	8.198 31.768 55.031 1.00 24.59	Ε
MOTA	4991 N GLU 123	9.662 33.458 55.405 1.00 17.46	E
MOTA	4992 H GLU 123	9.884 34.244 55.939 1.00 0.00	E
MOTA	4993 CA GLU 123	10.535 33.053 54.303 1.00 17.46	E
ATOM	4994 CB GLU 123	11.891 33.737 54.437 1.00 35.89	E
ATOM	4995 CG GLU 123	12.854 33.602 53.259 1.00 35.89	E
MOTA	4996 CD GLU 123	14.150 34.445 53.481 1.00 35.89 15.165 34.236 52.756 1.00 35.89	E
MOTA	4997 OE1 GLU 123 4998 OE2 GLU 123	14.156 35.333 54.394 1.00 35.89	
MOTA MOTA	4998 OE2 GLU 123 4999 C GLU 123	10.716 31.533 54.393 1.00 17.46	E
ATOM	5000 O GLU 123	10.210 30.763 53.572 1.00 35.89	E
ATOM	5000 O GLO 123	11.430 31.104 55.420 1.00 13.34	Ē
ATOM	5002 H GLN 124	11.815 31.749 56.055 1.00 0.00	E
ATOM	5003 CA GLN 124	11.650 29.696 55.599 1.00 13.34	Ē
MOTA	5004 CB GLN 124	12.162 29.420 57.001 1.00 22.75	E
MOTA	5005 CG GLN 124	13.133 28.319 57.049 1.00 22.75	Ε
ATOM	5006 CD GLN 124	12.968 27.495 58.251 1.00 22.75	Ε
ATOM	5007 OE1 GLN 124	12.372 27.930 59.227 1.00 22.75	
ATOM	5008 NE2 GLN 124	13.511 26.277 58.212 1.00 22.75	E
MOTA	5009 HE21 GLN 124	14.416 26.185 57.826 1.00 0.00	E
MOTA MOTA	5010 HE22 GLN 124 5011 C GLN 124	13.000 25.525 58.565 1.00 0.00 10.407 28.835 55.330 1.00 13.34	E
ATOM	5012 O GLN 124	10.465 27.869 54.529 1.00 22.75	E
ATOM	5013 N LEU 125	9.297 29.173 55.981 1.00 28.05	E
ATOM	5014 H LEU 125	9.298 29.948 56.572 1.00 0.00	E
MOTA	5015 CA LEU 125	8.071 28.417 55.842 1.00 28.05	Ε
MOTA	5016 CB LEU 125	6.921 29.215 56.408 1.00 24.16	Ε
MOTA	5017 CG LEU 125	7.007 29.190 57.923 1.00 24.16	Е
ATOM	5018 CD1 LEU 125	5.876 29.901 58.523 1.00 24.16	E
ATOM	5019 CD2 LEU 125	7.029 27.780 58.363 1.00 24.16	Ę
MOTA MOTA	5020 C LEU 125 5021 O LEU 125	7.766 27.997 54.417 1.00 28.05 7.436 26.827 54.149 1.00 24.16	E
ATOM	5022 N LYS 126	7.909 28.945 53.505 1.00 32.55	E
ATOM	5023 H LYS 126	8.190 29.839 53.802 1.00 0.00	Ē
ATOM	5024 CA LYS 126	7.684 28.711 52.085 1.00 32.55	Ē
ATOM	5025 CB LYS 126	7.915 30.035 51.335 1.00 45.10	Ē
MOTA	5026 CG LYS 126	7.196 31.245 51.992 1.00 45.10	E
MOTA	5027 CD LYS 126	6.082 30.803 52.983 1.00 45.10	E
ATOM	5028 CE LYS 126	4.908 31.797 53.050 1.00 45.10	Ε
MOTA	5029 NZ LYS 126	4.562 32.268 54.459 1.00 45.10	E
	5030 HZ1 LYS 126	3.878 33.044 54.386 1.00 0.00	E
ATOM ATOM	5031 HZ2 LYS 126 5032 HZ3 LYS 126	5.425 32.583 54.950 1.00 0.00	E
ATOM	5032 HZ3 LYS 126	4.125 31.466 54.957 1.00 0.00 8.588 27.594 51.512 1.00 32.55	E E
ATOM	5034 O LYS 126	8.851 27.545 50.300 1.00 45.10	E
ATOM	5035 N SER 127	9.023 26.686 52.386 1.00 6.72	E
ATOM	5036 H SER 127	8.810 26.683 53.319 1.00 0.00	Ē
ATOM	5037 CA SER 127	9.898 25.604 51.992 1.00 6.72	E

ATOM	5038 CB SER 127	11.311 26.127 52.012 1.00 23.65 E
ATOM	5039 OG SER 127	11.506 26.887 50.840 1.00 23.65 E
ATOM	5040 HG SER 127	12.432 27.083 50.733 1.00 0.00 E
MOTA	5041 C SER 127	9.841 24.336 52.822 1.00 6.72 E
ATOM	5042 O SER 127	10.805 23.559 52.812 1.00 23.65 E
ATOM	5043 N GLY 128	8.717 24.091 53.494 1.00 20.85 E
ATOM	5044 H GLY 128	7.943 24.690 53.404 1.00 0.00 E
ATOM	5045 CA GLY 128	8.648 22.925 54.369 1.00 20.85 E
ATOM	5046 C GLY 128	9.473 23.544 55.459 1.00 20.85 E
ATOM	5047 O GLY 128	9.209 24.690 55.787 1.00 23.71 E
ATOM	5048 N THR 129	10.486 22.876 55.984 1.00 17.02 E
ATOM	5049 H THR 129	10.680 21.959 55.670 1.00 0.00 E
ATOM	5050 CA THR 129	11.329 23.502 57.015 1.00 17.02 E
ATOM	5051 CB THR 129	12.561 24.209 56.380 1.00 26.48 E
ATOM		
ATOM	5053 HG1 THR 129	11.238 25.407 55.508 1.00 0.00 E
ATOM	5054 CG2 THR 129	13.547 23.216 55.797 1.00 26.48 E
ATOM	5055 C THR 129	10.621 24.550 57.914 1.00 17.02 E
ATOM	5056 O THR 129	10.223 25.638 57.481 1.00 26.48 E
ATOM	5057 N ALA 130	10.462 24.208 59.178 1.00 19.20 E
ATOM	5058 H ALA 130	10.754 23.323 59.464 1.00 0.00 E
ATOM	5059 CA ALA 130	9.865 25.123 60.146 1.00 19.20 E
ATOM	5060 CB ALA 130	8.470 24.617 60.553 1.00 12.73 E
ATOM	5061 C ALA 130	10.838 25.127 61.359 1.00 19.20 E
ATOM	5062 O ALA 130	10.915 24.137 62.113 1.00 12.73 E
ATOM	5063 N SER 131	11.593 26.214 61.520 1.00 12.76 E
ATOM	5064 H SER 131	11.487 26.966 60.893 1.00 0.00 E
ATOM	5065 CA SER 131	12.583 26.329 62.607 1.00 12.76 E
ATOM	5066 CB SER 131	13.977 26.639 62.034 1.00 10.79 E
ATOM	5067 OG SER 131	14.581 25.510 61.442 1.00 10.79 E
ATOM	5068 HG SER 131	14.149 25.315 60.596 1.00 0.00 E
ATOM	5069 C SER 131	12.285 27.392 63.655 1.00 12.76 E
ATOM	5070 O SER 131	12.274 28.572 63.354 1.00 10.79 E
ATOM	5071 N VAL 132	12.057 26.985 64.885 1.00 6.67 E
ATOM	5072 H VAL 132	12.055 26.026 65.095 1.00 0.00 E
ATOM	5073 CA VAL 132	
ATOM	5074 CB VAL 132	
ATOM	5075 CG1 VAL 132	
ATOM	5076 CG2 VAL 132	
ATOM	5077 C VAL 132	
ATOM	5078 O VAL 132	
ATOM	5079 N VAL 133	
ATOM	5080 H VAL 133	13.672 29.038 67.112 1.00 14.48 E
ATOM		13.329 29.855 66.681 1.00 0.00 E
ATOM		14.876 29.109 67.936 1.00 14.48 E
ATOM		15.949 30.036 67.228 1.00 18.10 E
	5083 CG1 VAL 133	17.158 30.284 68.114 1.00 18.10 E
MOTA	5084 CG2 VAL 133	16.372 29.410 65.944 1.00 18.10 E
MOTA	5085 C VAL 133	14.640 29.597 69.348 1.00 14.48 E
MOTA	5086 O VAL 133	13.822 30.474 69.572 1.00 18.10 E
MOTA	5087 N CYS 134	15.375 29.056 70.301 1.00 2.80 E
MOTA	5088 H CYS 134	16.045 28.382 70.071 1.00 0.00 E
ATOM	5089 CA CYS 134	15.195 29.476 71.688 1.00 2.80 E
ATOM	5090 C CYS 134	16.558 29.915 72.131 1.00 2.80 E
ATOM	5091 O CYS 134	17.536 29.199 71.884 1.00 12.54 E
ATOM	5092 CB CYS 134	14.740 28.321 72.594 1.00 12.54 E
ATOM	5093 SG CYS 134	14.454 28.914 74.291 1.00 12.54 E

ATOM ATOM	5094 N LEU 5095 H LEU		16.612 31.094 72.758 1.00 2.00 15.784 31.567 72.869 1.00 0.00	E E
ATOM	5096 CA LE	U 135	17.843 31.691 73.274 1.00 2.00	Ε
MOTA MOTA	5097 CB LE 5098 CG LE		17.979 33.145 72.794 1.00 9.55 19.208 33.703 72.075 1.00 9.55	E
MOTA	5099 CD1 LE		19.313 35.198 72.283 1.00 9.55	E
MOTA MOTA	5100 CD2 LE 5101 C LEU		20.432 32.992 72.526 1.00 9.55 17.817 31.743 74.784 1.00 2.00	E
ATOM	5102 O LEI		16.783 31.995 75.343 1.00 9.55	E
MOTA MOTA	5103 N LEU 5104 H LEU		18.963 31.527 75.417 1.00 2.44 19.746 31.289 74.884 1.00 0.00	E E
ATOM	5105 CA LE	U 136	19.144 31.642 76.876 1.00 2.44	Ε
ATOM ATOM	5106 CB LE 5107 CG LE		19.372 30.272 77.508 1.00 10.58 18.182 29.359 77.752 1.00 10.58	E E
ATOM	5108 CD1 LE	U 136	17.580 28.996 76.445 1.00 10.58	Ε
MOTA	5109 CD2 LE 5110 C LEU		18.608 28.136 78.509 1.00 10.58 20.450 32.447 76.987 1.00 2.44	E E
MOTA	5111 O LEU	J 136	21.516 31.853 76.926 1.00 10.58	E
MOTA MOTA	5112 N ASN 5113 H ASN		20.405 33.764 77.150 1.00 2.47 19.558 34.241 77.258 1.00 0.00	E
MOTA	5114 CA AS	N 137	21.644 34.524 77.154 1.00 2.47	E
MOTA MOTA	5115 CB AS 5116 CG AS		21.415 35.851 76.436 1.00 19.39 22.236 35.957 75.179 1.00 19.39	E
MOTA	5117 OD1 AS			E
MOTA MOTA	5118 ND2 AS 5119 HD21 A			E
MOTA	5120 HD22 A			E
ATOM ATOM	5121 C ASN 5122 O ASN		22.435 34.782 78.434 1.00 2.47 21.871 35.039 79.455 1.00 19.39	E E
MOTA MOTA	5123 N ASN 5124 H ASN		23.754 34.739 78.328 1.00 4.85 24.149 34.529 77.443 1.00 0.00	E E
ATOM	5125 CA AS	N 138	24.668 34.986 79.432 1.00 4.85	E
MOTA MOTA	5126 CB AS 5127 CG AS		24.963 36.441 79.576 1.00 28.71 24.726 37.153 78.354 1.00 28.71	E
ATOM	5128 OD1 AS	N 138	24.222 38.244 78.400 1.00 28.71	E
MOTA MOTA	5129 ND2 AS 5130 HD21 AS		25.062 36.545 77.214 1.00 28.71 24.481 35.839 76.872 1.00 0.00	E
ATOM	5131 HD22 A	SN 138	25.886 36.846 76.772 1.00 0.00	Ē
MOTA MOTA	5132 C ASN 5133 O ASN	l 138 l 138	24.309 34.528 80.780 1.00 4.85 24.025 35.344 81.648 1.00 28.71	E
MOTA	5134 N PHE	139	24.381 33.229 80.976 1.00 7.68	Е
ATOM ATOM	5135 H PHE 5136 CA PH		24.677 32.645 80.237 1.00 0.00 24.043 32.668 82.231 1.00 7.68	E E
MOTA	5137 CB PH	E 139	22.868 31.708 82.052 1.00 2.39	E
ATOM ATOM	5138 CG PH 5139 CD1 PH		23.100 30.606 81.063 1.00 2.39 22.666 30.735 79.760 1.00 2.39	E
	5140 CD2 PH 5141 CE1 PH		23.720 29.410 81.458 1.00 2.39	Ε
ATOM	5142 CE2 PH	E 139	22.835 29.694 78.837 1.00 2.39 23.910 28.348 80.575 1.00 2.39	E
ATOM ATOM	5143 CZ PH 5144 C PHE		23.467 28.481 79.247 1.00 2.39	Ε
MOTA	5145 O PHE	139	25.287 31.985 82.721 1.00 7.68 26.258 31.869 81.970 1.00 2.39	E E
ATOM ATOM	5146 N TYR 5147 H TYR		25.255 31.561 83.983 1.00 9.44 24.441 31.710 84.495 1.00 0.00	Ε
MOTA	5148 CA TY	₹ 140	26.378 30.908 84.624 1.00 9.44	E E
MOTA	5149 CB TY	₹ 140	27.489 31.912 84.903 1.00 15.00	E

ATOM	E4 E 7	CG TYF	R 140	28.758 31.263 85.361 1.00 15.00	Е
ATOM		CD1 TY			E
ATOM		CE1 TY			E
ATOM		CD2 TY		28.945 30.910 86.702 1.00 15.00	E
ATOM		CE2 TY		30.111 30.306 87.103 1.00 15.00	E
ATOM		CZ TYF		31.105 30.044 86.154 1.00 15.00	E
ATOM		OH TYP		32.279 29.426 86.501 1.00 15.00	E
ATOM		HH TYF		32.270 29.229 87.447 1.00 0.00	E
ATOM	5158			25.968 30.333 85.945 1.00 9.44	E
ATOM	5159			25.155 30.925 86.644 1.00 15.00	E
ATOM	5160			26.486 29.139 86.293 1.00 8.48	Ē
ATOM		CD PRO		26.203 28.467 87.574 1.00 2.00	E
ATOM		CA PRO		27.402 28.326 85.509 1.00 8.48	E
ATOM		CB PRO		27.782 27.226 86.471 1.00 2.00	E
ATOM	5164	CG PRO		26.620 27.072 87.304 1.00 2.00	Ē
ATOM	5165	C PRO	141	26.650 27.800 84.317 1.00 8.48	E
ATOM	5166	O PRO	141	25.537 28.182 84.073 1.00 2.00	Ε
ATOM	5167	N ARG	142	27.279 26.885 83.613 1.00 8.17	Ε
ATOM	5168	H ARG	142	28.161 26.592 83.922 1.00 0.00	Ε
ATOM	5169	CA ARG	3 142	26.746 26.309 82.400 1.00 8.17	Ε
ATOM		CB ARG		27.885 25.717 81.612 1.00 16.58	Ε
ATOM		CG ARC		27.723 25.985 80.224 1.00 16.58	Ε
ATOM		CD ARG		28.093 24.787 79.549 1.00 16.58	Ε
ATOM		NE ARC		29.512 24.618 79.677 1.00 16.58	E
ATOM		HE ARG		29.989 25.114 80.371 1.00 0.00	Ε
MOTA		CZ ARG		30.221 23.829 78.888 1.00 16.58	E
MOTA		NH1 AR			E
MOTA MOTA		HH11 AR			E
ATOM		HH12 AR NH2 AR			E
ATOM		HH21 AR			E
ATOM		HH22 AR			E
ATOM	5182		142	25.610 25.327 82.473 1.00 8.17	E
ATOM		O ARG	142	24.733 25.307 81.617 1.00 16.58	E
ATOM	5184	–	143	25.598 24.491 83.480 1.00 13.41	E
MOTA	5185		143	26.315 24.513 84.147 1.00 0.00	Ē
ATOM	5186	CA GLU		24.499 23.530 83.591 1.00 13.41	Ē
ATOM		CB GLU		24.482 22.908 84.991 0.00 23.44	Ē
MOTA	5188	CG GLU		24.807 23.885 86.112 0.00 23.44	Ē
ATOM		CD GLU		25.167 23.187 87.410 0.00 23.44	E
ATOM		OE1 GLL		24.369 23.265 88.368 0.00 23.44	Ε
ATOM		OE2 GLU		26.246 22.563 87.473 0.00 23.44	Ε
ATOM	5192			23.182 24.265 83.325 1.00 13.41	Ε
ATOM		O GLU	143	22.764 25.154 84.078 1.00 23.44	E
ATOM	5194		144		Ε
	5195		144	22.917 23.256 81.638 1.00 0.00	E
ATOM ATOM		CA ALA		21.255 24.554 81.913 1.00 3.47	E
ATOM		CB ALA C ALA	144	21.477 25.817 81.065 1.00 2.00	E
ATOM	5199		144 144	20.417 23.527 81.160 1.00 3.47	Ē
ATOM	5200		145		E
ATOM		H LYS	145	19.097 23.577 81.288 1.00 9.52	E
ATOM		CA LYS	145	18.705 24.256 81.876 1.00 0.00 18.192 22.638 80.592 1.00 9.52	E
		CB LYS	145	17.576 21.642 81.605 1.00 26.18	E
		CG LYS	145	17.453 20.190 81.150 1.00 26.18	E
ATOM	5205	CD LYS	145	16.014 19.829 80.677 1.00 26.18	E
				11.00 20,10	-

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ATOM	5206 CE LYS 145	15.940 18.544 79.774 1.00 26.18	Ε
ATOM	5200 OE ETO 145 5207 NZ LYS 145	14.545 17.929 79.628 1.00 26.18	Ē
ATOM		14.625 16.912 79.405 1.00 0.00	E
ATOM	5209 HZ2 LYS 145	14.047 18.405 78.845 1.00 0.00	E
ATOM	5210 HZ3 LYS 145	14.008 18.057 80.507 1.00 0.00	E
ATOM	5211 C LYS 145	17.050 23.360 79.841 1.00 9.52	E
ATOM	5212 O LYS 145	16.454 24.286 80.353 1.00 26.18	Е
ATOM	5213 N VAL 146	16.759 22.914 78.621 1.00 8.51	Ε
ATOM	5214 H VAL 146	17.281 22.158 78.260 1.00 0.00	E
ATOM	5215 CA VAL 146	15.714 23.475 77.768 1.00 8.51	Ε
ATOM	5216 CB VAL 146	16.291 23.949 76.385 1.00 5.65	E
ATOM	5217 CG1 VAL 146	15.192 24.501 75.510 1.00 5.65	E
ATOM	5218 CG2 VAL 146	17.405 24.965 76.587 1.00 5.65	E
ATOM	5219 C VAL 146	14.806 22.328 77.450 1.00 8.51	Ε
ATOM	5220 O VAL 146	15.251 21.220 77.218 1.00 5.65	Ε
ATOM	5221 N GLN 147	13.519 22.591 77.454 1.00 4.16	Ε
ATOM	5222 H GLN 147	13.219 23.499 77.685 1.00 0.00	E
ATOM	5223 CA GLN 147	12.527 21.588 77.124 1.00 4.16	Ε
ATOM	5224 CB GLN 147	11.729 21.199 78.358 1.00 35.70	E
ATOM	5225 CG GLN 147	11.660 19.701 78.651 1.00 35.70	E
ATOM	5226 CD GLN 147	11.776 19.397 80.139 1.00 35.70	Ē
ATOM	5227 OE1 GLN 147	12.750 19.776 80.765 1.00 35.70	
ATOM	5228 NE2 GLN 147	10.778 18.732 80.706 1.00 35.70	Ē
ATOM	5229 HE21 GLN 147	10.132 19.247 81.247 1.00 0.00	Ē
ATOM	5230 HE22 GLN 147	10.732 17.769 80.558 1.00 0.00	Ē
ATOM	5231 C GLN 147	11.633 22.312 76.126 1.00 4.16	E
ATOM	5232 O GLN 147	11.255 23.478 76.330 1.00 35.70	Ē
ATOM	5233 N TRP 148	11.337 21.638 75.024 1.00 10.61	Ē
ATOM	5234 H TRP 148	11.707 20.740 74.906 1.00 0.00	Ē
ATOM	5235 CA TRP 148	10.484 22.192 74.016 1.00 10.61	E
ATOM	5236 CB TRP 148	11.000 21.858 72.660 1.00 2.00	E
ATOM	5237 CG TRP 148	11.995 22.772 72.181 1.00 2.00	Ē
ATOM	5238 CD2 TRP 148	11.781 24.089 71.687 1.00 2.00	E
ATOM	5239 CE2 TRP 148	13.035 24.606 71.335 1.00 2.00	E
ATOM	5240 CE3 TRP 148	10.650 24.888 71.511 1.00 2.00	E
ATOM	5241 CD1 TRP 148	13.319 22.547 72.107 1.00 2.00	E
ATOM	5242 NE1 TRP 148	13.962 23.635 71.599 1.00 2.00	E
ATOM	5243 HE1 TRP 148	14.927 23.704 71.450 1.00 0.00	Ε
ATOM	5244 CZ2 TRP 148	13.197 25.878 70.825 1.00 2.00	E
ATOM	5245 CZ3 TRP 148	10.817 26.147 71.001 1.00 2.00	E
ATOM	5246 CH2 TRP 148	12.087 26.628 70.665 1.00 2.00	E
ATOM	5247 C TRP 148	9.092 21.588 74.157 1.00 10.61	
ATOM	5248 O TRP 148	8.925 20.386 74.143 1.00 2.00	E
ATOM	5249 N LYS 149	8.081 22.425 74.300 1.00 17.36	Ε
ATOM	5250 H LYS 149		E
ATOM	5251 CA LYS 149	8.244 23.391 74.334 1.00 0.00	E
ATOM	5252 CB LYS 149	6.731 21.915 74.401 1.00 17.36	E
ATOM	5253 CG LYS 149	6.190 22.166 75.803 1.00 22.03	E
ATOM	5254 CD LYS 149	7.169 21.708 76.848 1.00 22.03	E
ATOM	5255 CE LYS 149	6.518 20.957 77.938 1.00 22.03	E
ATOM	5256 NZ LYS 149	6.080 21.902 79.018 1.00 22.03	E
ATOM	5257 HZ1 LYS 149	6.954 21.888 80.257 1.00 22.03	Ë
ATOM	5258 HZ2 LYS 149	7.335 20.935 80.389 1.00 0.00	Ē
ATOM	5259 HZ3 LYS 149	6.354 22.135 81.078 1.00 0.00	E
ATOM	5260 C LYS 149	7.704 22.592 80.160 1.00 0.00	E
ATOM		5.835 22.551 73.339 1.00 17.36	E
A I OIVI	5261 O LYS 149	5.603 23.766 73.342 1.00 22.03	Ε

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5263 H VAL 150 5264 CA VAL 150 5265 CB VAL 150 5266 CG1 VAL 150 5267 CG2 VAL 150 5268 C VAL 150 5269 O VAL 150 5270 N ASP 151 5271 H ASP 151 5272 CA ASP 151 5273 CB ASP 151 5274 CG ASP 151 5275 OD1 ASP 151 5276 OD2 ASP 151 5277 C ASP 151 5278 O ASP 151 5278 O ASP 151 5279 N ASN 152 5280 H ASN 152 5280 H ASN 152 5281 CA ASN 152 5281 CA ASN 152 5282 CB ASN 152 5283 CG ASN 152 5284 OD1 ASN 152 5285 ND2 ASN 152 5286 HD21 ASN 152 5286 HD21 ASN 152 5287 HD22 ASN 152 5288 C ASN 152 5288 C ASN 152 5289 O ASN 152 5289 O ASN 152 5289 O ASN 152 5289 C ASN 153 5291 H ALA 153 5291 H ALA 153 5292 CA ALA 153 5293 CB ALA 153 5294 C ALA 153 5295 O ALA 153 5296 N LEU 154 5300 CG LEU 154 5301 CD1 LEU 154 5301 CD1 LEU 154 5303 C LEU 154 5304 O LEU 154 5305 N GLN 155 5306 H GLN 155	5.371 21.728 72.399 1.00 36.74 5.655 20.795 72.406 1.00 0.00 4.459 22.208 71.371 1.00 36.74 4.589 21.472 70.064 1.00 2.00 3.504 21.971 69.146 1.00 2.00 5.924 21.776 69.452 1.00 2.00 3.070 22.008 71.969 1.00 36.74 2.799 20.997 72.639 1.00 2.00 2.180 22.958 71.708 1.00 24.86 2.376 23.647 71.048 1.00 0.00 0.901 22.941 72.393 1.00 24.86 -0.042 21.882 71.836 1.00 9.37 -0.770 22.379 70.560 1.00 9.37 -1.242 21.578 69.715 1.00 9.37 1.392 22.655 73.820 1.00 24.86 2.286 23.383 74.303 1.00 9.37 0.912 21.627 74.501 1.00 18.93 0.244 21.011 74.133 1.00 0.00 1.426 21.448 75.868 1.00 18.93 0.274 21.362 76.863 1.00 18.25 0.215 22.560 77.756 1.00 18.25 -1.523 23.412 77.310 1.00 18.25 -1.523 23.412 77.310 1.00 18.25 -1.523 23.412 77.310 1.00 0.00 2.304 20.221 76.059 1.00 18.25 -1.523 23.412 77.310 1.00 0.00 2.304 20.221 76.059 1.00 18.25 2.668 19.578 74.984 1.00 20.36 2.426 19.979 74.088 1.00 0.00 3.414 18.344 74.952 1.00 20.36 2.963 17.505 73.768 1.00 20.36 2.963 17.505 73.768 1.00 20.36 2.963 17.505 73.768 1.00 20.36 2.963 17.505 73.768 1.00 14.58 7.347 16.869 77.145 1.00 13.26 8.844 16.842 77.402 1.00 13.26 9.517 15.839 76.432 1.00 13.26 9.450 18.279 77.241 1.00 13.26 9.450 18.279 77.241 1.00 13.26 9.450 18.279 77.241 1.00 13.26 8.358 17.671 73.808 1.00 7.72 8.531 18.611 74.004 1.00 1.00	
MOTA	5297 H LEU 154	5.033 17.040 76.271 1.00 0.00	E
	5298 CA LEU 154	7.006 17.639 75.873 1.00 14.58	E
ATOM	5300 CG LEU 154	8.844 16.842 77.402 1.00 13.26	E
	5301 CD1 LEU 154	9.517 15.839 76.432 1.00 13.26	E
MOTA	5303 C LEU 154 5304 O LEU 154	7.619 16.945 74.640 1.00 14.58 7.438 15.746 74.454 1.00 13.26	E
MOTA	5306 H GLN 155	8.531 18.611 74.004 1.00 0.00	
MOTA	5307 CA GLN 155	8.932 17.077 72.596 1.00 7.72	
ATOM	5308 CB GLN 155	9.342 18.159 71.632 1.00 10.21	E
ATOM	5309 CG GLN 155	8.261 19.150 71.384 1.00 10.21	E
ATOM	5310 CD GLN 155	7.089 18.555 70.646 1.00 10.21	E
ATOM ATOM ATOM	5311 OE1 GLN 155 5312 NE2 GLN 155	5.975 18.431 71.190 1.00 10.21 7.320 18.182 69.399 1.00 10.21	E
ATOM ATOM ATOM	5313 HE21 GLN 155 5314 HE22 GLN 155 5315 C GLN 155	7.847 17.373 69.238 1.00 0.00 6.938 18.736 68.687 1.00 0.00 10.085 16.133 72.806 1.00 7.72	E E
MOTA	5316 O GLN 155	10.699 16.121 73.877 1.00 10.21	E
MOTA	5317 N SER 156	10.370 15.324 71.781 1.00 9.59	

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ATOM	5318 H SER 1	56	9.853 15.380 70.950 1.00 0.00	Е
ATOM		156	11,440 14.359 71.882 1.00 9.59	E
ATOM		156	10.828 12.981 72.084 1.00 32.14	Ε
ATOM	5321 OG SER	156	10.145 12.960 73.318 1.00 32.14	Ε
ATOM	5322 HG SER	156	9.919 12.054 73.550 1.00 0.00	Ε
ATOM	5323 C SER 1	56	12.613 14.258 70.880 1.00 9.59	Ε
ATOM		156	13.756 14.276 71.301 1.00 32.14	Ε
ATOM		57	12.400 14.107 69.589 1.00 9.18	E
ATOM		57	11.496 14.080 69.203 1.00 0.00	E
ATOM		157	13.595 13.983 68.765 1.00 9.18	E
ATOM		57	13.733 15.009 67.659 1.00 9.18	Ē
ATOM		157	14.280 14.677 66.620 1.00 14.37	E
ATOM ATOM		58 58	13.239 16.238 67.885 1.00 2.61 12.843 16.433 68.761 1.00 0.00	E
ATOM		158	13.268 17.295 66.889 1.00 2.61	E
ATOM		158	11.842 17.501 66.405 1.00 28.60	E
ATOM		158	11.386 16.380 65.466 1.00 28.60	Ē
ATOM	5335 OD1 ASN	158	11.544 15.188 65.777 1.00 28.60	Ē
ATOM	5336 ND2 ASN	158	10.831 16.756 64.301 1.00 28.60	Ē
ATOM	5337 HD21 ASN	158	9.851 16.802 64.267 1.00 0.00	E
ATOM	5338 HD22 ASN	158	11.416 16.965 63.548 1.00 0.00	Ε
ATOM		58	13.903 18.607 67.330 1.00 2.61	Ε
ATOM		158	13.449 19.678 66.963 1.00 28.60	Ε
ATOM		59	14.971 18.499 68.124 1.00 2.00	E
MOTA		59	15.289 17.597 68.364 1.00 0.00	E
ATOM		159	15.700 19.664 68.656 1.00 2.00	E
MOTA		159	15.252 19.949 70.094 1.00 6.58	E
MOTA MOTA		159 159	16.368 19.821 70.981 1.00 6.58	E
ATOM		59	16.864 20.642 70.974 1.00 0.00 17.217 19.431 68.657 1.00 2.00	E
ATOM		159	17.672 18.309 68.780 1.00 6.58	E
ATOM		60		E
ATOM		60		Ē
ATOM	5351 CA GLN	160	19.461 20.567 68.549 1.00 7.73	Ε
MOTA		160	20.018 20.720 67.164 1.00 16.07	Ε
ATOM		160	19.623 19.669 66.235 1.00 16.07	Ε
ATOM		160	20.784 18.796 65.969 1.00 16.07	Ε
ATOM	5355 OE1 GLN	160	21.200 18.647 64.812 1.00 16.07	E
ATOM	5356 NE2 GLN	160	21.370 18.217 67.051 1.00 16.07	E
MOTA MOTA	5357 HE21 GLN 5358 HE22 GLN	160	22.164 17.658 66.904 1.00 0.00	E
ATOM		160 60	20.982 18.392 67.923 1.00 0.00 19.894 21.844 69.285 1.00 7.73	E
ATOM		60	19.241 22.895 69.178 1.00 16.07	E
ATOM				E
ATOM				Ē
ATOM		161	21.527 22.882 70.748 1.00 2.56	E
ATOM		161	20.924 22.987 72.111 1.00 10.84	E
ATOM	5365 CG GLU	161	20.970 21.744 72.808 1.00 10.84	E
ATOM		161	21.053 21.962 74.280 1.00 10.84	Ε
ATOM		161	22.179 21.756 74.793 1.00 10.84	Ε
ATOM		161	20.027 22.344 74.920 1.00 10.84	_ E
MOTA				E
ATOM ATOM		61 62	23.727 21.978 70.649 1.00 10.84	E
ATOM		62 62	23.513 24.114 71.137 1.00 10.53	E
ATOM		162		E
, (1 O IVI	JUIG ON OLK	.02	24.930 24.285 71.302 1.00 10.53	E

ATOM	5374 CB SER 162	25.587 24.541 69.935 1.00 15.87	Ε
		25.964 25.881 69.752 1.00 15.87	E
ATOM	5375 OG SER 162	25.734 26.150 68.854 1.00 0.00	E
ATOM	5376 HG SER 162		E
ATOM	5377 C SER 162	25.126 25.439 72.281 1.00 10.53	
ATOM	5378 O SER 162	24.229 26.294 72.464 1.00 15.87	E
ATOM	5379 N VAL 163	26.261 25.415 72.949 1.00 3.68	E
ATOM	5380 H VAL 163	26.917 24.725 72.784 1.00 0.00	E
ATOM	5381 CA VAL 163	26.571 26.438 73.924 1.00 3.68	Ε
MOTA	5382 CB VAL 163	26.800 25.841 75.326 1.00 7.65	Ε
ATOM	5383 CG1 VAL 163	28.183 25.348 75.456 1.00 7.65	E
MOTA	5384 CG2 VAL 163	26.591 26.872 76.344 1.00 7.65	Ε
ATOM	5385 C VAL 163	27.823 27.217 73.518 1.00 3.68	E
ATOM	5386 O VAL 163	28.667 26.718 72.759 1.00 7.65	Ε
ATOM	5387 N THR 164	27.938 28.440 74.007 1.00 12.79	Ε
ATOM	5388 H THR 164	27.261 28.799 74.598 1.00 0.00	Ε
MOTA	5389 CA THR 164	29.083 29.234 73.671 1.00 12.79	Ε
ATOM	5390 CB THR 164	28.779 30.685 73.805 1.00 2.00	E
ATOM	5391 OG1 THR 164	28.257 30.948 75.096 1.00 2.00	Ε
ATOM	5392 HG1 THR 164	28.954 31.263 75.671 1.00 0.00	Ē
ATOM	5393 CG2 THR 164	27.819 31.066 72.814 1.00 2.00	Ē
ATOM	5394 C THR 164	30.225 28.930 74.592 1.00 12.79	E
ATOM	5395 O THR 164	30.054 28.298 75.616 1.00 2.00	E
ATOM	5396 N GLU 165	31.401 29.367 74.179 1.00 19.21	Ē
ATOM	5397 H GLU 165	31.467 29.792 73.296 1.00 0.00	E
ATOM	5398 CA GLU 165	32.607 29.257 74.971 1.00 19.21	E
ATOM	5399 CB GLU 165	33.797 29.509 74.056 1.00 27.72	E
ATOM	5400 CG GLU 165	35.130 29.250 74.663 1.00 27.72	E
ATOM	5401 CD GLU 165	35.599 27.829 74.431 1.00 27.72	E
ATOM	5402 OE1 GLU 165		
ATOM		34.735 27.061 73.931 1.00 27.72 36.789 27.494 74.745 1.00 27.72	E
ATOM	5403 OE2 GLU 165 5404 C GLU 165	32.380 30.455 75.922 1.00 19.21	
		31.537 31.328 75.666 1.00 27.72	E
ATOM ATOM	5405 O GLU 165 5406 N GLN 166		E
		33.101 30.509 77.017 1.00 2.00	E E
MOTA		33.757 29.800 77.203 1.00 0.00	
ATOM ATOM	5408 CA GLN 166 5409 CB GLN 166	32.940 31.612 77.932 1.00 2.00 33.838 31.440 79.096 1.00 2.00	E
ATOM			E
ATOM		33.210 30.757 80.188 1.00 2.00	E
ATOM		33.959 30.983 81.439 1.00 2.00	Ē
ATOM		35.091 30.499 81.625 1.00 2.00	E
		33.335 31.744 82.339 1.00 2.00	Ē
MOTA		32.648 31.322 82.893 1.00 0.00	E
		33.587 32.684 82.403 1.00 0.00	E
		33.211 32.994 77.375 1.00 2.00	E
	5417 O GLN 166	34.198 33.230 76.698 1.00 2.00	E
ATOM	5418 N ASP 167	32.331 33.934 77.695 1.00 3.31	Ε
ATOM	5419 H ASP 167	31.551 33.698 78.254 1.00 0.00	Ε
MOTA	5420 CA ASP 167	32.522 35.293 77.230 1.00 3.31	E
	5421 CB ASP 167	31.364 36.195 77.689 1.00 29.58	E
	5422 CG ASP 167	31.412 37.596 77.070 1.00 29.58	E
	5423 OD1 ASP 167	31.355 37.705 75.831 1.00 29.58	Ε
	5424 OD2 ASP 167	31.503 38.591 77.822 1.00 29.58	E
ATOM	5425 C ASP 167	33.833 35.836 77.765 1.00 3.31	Ε
ATOM	5426 O ASP 167	34.329 35.458 78.819 1.00 29.58	Ε
ATOM	5427 N SER 168	34.363 36.755 76.994 1.00 10.25	Ε
MOTA	5428 H SER 168	33.890 37.005 76.180 1.00 0.00	Ε
MOTA	5429 CA SER 168	35.621 37.413 77.278 1.00 10.25	E

ATO44	F420 OD OED 460	00.404.27.060.75.054.4.00.45.07	_
ATOM	5430 CB SER 168	36.164 37.969 75.954 1.00 15.97	E
MOTA	5431 OG SER 168	35.122 38.061 74.990 1.00 15.97	E
MOTA	5432 HG SER 168	35.084 38.948 74.629 1.00 0.00	Ε
ATOM	5433 C SER 168	35.435 38.551 78.296 1.00 10.25	Ε
ATOM	5434 O SER 168	36.328 38.850 79.086 1.00 15.97	Ε
ATOM	5435 N LYS 169	34.256 39.157 78.236 1.00 15.69	E
ATOM	5436 H LYS 169	33.621 38.826 77.577 1.00 0.00	E
ATOM	5437 CA LYS 169	33.845 40.270 79.074 1.00 15.69	E
ATOM	5438 CB LYS 169	32.878 41.125 78.262 1.00 13.14	Ē
ATOM	5439 CG LYS 169	33.511 42.168 77.341 1.00 13.14	E
ATOM	5440 CD LYS 169	33.040 42.053 75.888 1.00 13.14	
			Ε
ATOM	5441 CE LYS 169	31.670 41.237 75.689 1.00 13.14	E
ATOM	5442 NZ LYS 169	31.171 40.914 74.250 1.00 13.14	E
MOTA	5443 HZ1 LYS 169	31.277 39.893 74.102 1.00 0.00	Ε
MOTA	5444 HZ2 LYS 169	31.739 41.429 73.550 1.00 0.00	Ε
MOTA	5445 HZ3 LYS 169	30.169 41.166 74.154 1.00 0.00	Ε
MOTA	5446 C LYS 169	33.212 39.965 80.458 1.00 15.69	Ε
MOTA	5447 O LYS 169	33.591 40.594 81.453 1.00 13.14	E
MOTA	5448 N ASP 170	32.250 39.022 80.513 1.00 2.00	Ε
MOTA	5449 H ASP 170	32.021 38.547 79.690 1.00 0.00	E
MOTA	5450 CA ASP 170	31.524 38.654 81.753 1.00 2.00	E
MOTA	5451 CB ASP 170	30.067 38.988 81.576 1.00 16.80	E
ATOM	5452 CG ASP 170	29.451 38.261 80.411 1.00 16.80	Ē
ATOM	5453 OD1 ASP 170	30.151 37.356 79.925 1.00 16.80	E
ATOM	5454 OD2 ASP 170	28.293 38.584 79.990 1.00 16.80	Ē
ATOM	5455 C ASP 170	31.599 37.212 82.218 1.00 2.00	E
ATOM	5456 O ASP 170	30.973 36.832 83.191 1.00 16.80	
ATOM	5457 N SER 171		Ε
ATOM	5458 H SER 171		E
ATOM	5459 CA SER 171	32.760 36.707 80.687 1.00 0.00 32.474 34.975 81.872 1.00 6.23	Ē
ATOM	5460 CB SER 171	33.099 34.921 83.278 1.00 6.23	E
ATOM	5461 OG SER 171	34.222 35.785 83.373 1.00 23.86	Ē
ATOM	5462 HG SER 171	33.914 36.685 83.520 1.00 0.00	E
ATOM	5463 C SER 171	31.221 34.071 81.792 1.00 6.23	E
ATOM	5464 O SER 171	<u> </u>	Ē
ATOM			E
ATOM		30.127 34.599 81.257 1.00 2.00	E
ATOM		30.167 35.520 80.939 1.00 0.00	E
ATOM	5467 CA THR 172 5468 CB THR 172	28.869 33.834 81.133 1.00 2.00	E
ATOM		27.659 34.796 81.013 1.00 3.54	E
	5469 OG1 THR 172	27.762 35.526 79.801 1.00 3.54	E
ATON	5470 HG1 THR 172		E
	5471 CG2 THR 172	27.645 35.790 82.161 1.00 3.54	Ε
MOTA	5472 C THR 172	28.854 32.915 79.932 1.00 2.00	Ε
ATOM	5473 O THR 172	29.806 32.893 79.140 1.00 3.54	Ε
MOTA	5474 N TYR 173	27.775 32.164 79.786 1.00 2.00	Ε
MOTA	5475 H TYR 173	27.072 32,231 80.424 1.00 0.00	E
ATOM	5476 CA TYR 173	27.629 31.246 78.649 1.00 2.00	Ε
MOTA	5477 CB TYR 173	27.388 29.836 79.099 1.00 10.71	E
ATOM	5478 CG TYR 173	28.606 29.263 79.735 1.00 10.71	E
MOTA	5479 CD1 TYR 173	29.666 28.843 78.970 1.00 10.71	Ē
MOTA	5480 CE1 TYR 173	30.784 28.323 79.568 1.00 10.71	Ē
MOTA	5481 CD2 TYR 173	28.700 29.155 81.118 1.00 10.71	Ē
MOTA	5482 CE2 TYR 173	29.835 28.631 81.732 1.00 10.71	Ē
MOTA	5483 CZ TYR 173	30.870 28.210 80.955 1.00 10.71	E
MOTA	5484 OH TYR 173	31.964 27.628 81.522 1.00 10.71	E
MOTA	5485 HH TYR 173	31.770 27.390 82.422 1.00 0.00	E
		J 70 27.000 02.722 1.00 0.00	

ATOM	5486 C TYR 173	26.453 31.709 77.895 1.00 2.00 E
ATOM		25.919 32.765 78.231 1.00 10.71 E
ATOM		26.088 30.998 76.842 1.00 2.30 E
ATOM		26.642 30.232 76.586 1.00 0.00 E
ATOM		
ATOM		
ATOM		25.256 32.411 75.028 1.00 2.01 E
	· · · · · · · · · · · · · · · · · · ·	24.556 33.580 75.339 1.00 2.01 E
MOTA		23.622 33.383 75.357 1.00 0.00 E
ATOM		24.537 30.008 75.335 1.00 2.30 E
ATOM		25.399 29.189 75.021 1.00 2.01 E
ATOM	5496 N LEU 175	23.261 29.802 75.091 1.00 2.48 E
ATOM	- · · · · · · · · · · · · · · · · · · ·	22.607 30.484 75.337 1.00 0.00 E
ATOM		22.834 28.580 74.470 1.00 2.48 E
ATOM		22.447 27.559 75.562 1.00 8.45 E
ATOM		21.373 26.448 75.548 1.00 8.45 E
ATOM	5501 CD1 LEU 175	20.258 26.684 74.600 1.00 8.45 E
AŢOM	5502 CD2 LEU 175	22.006 25.200 75.234 1.00 8.45 E
ATOM	5503 C LEU 175	21.669 28.801 73.505 1.00 2.48 E
ATOM	5504 O LEU 175	20.703 29.492 73.824 1.00 8.45 E
ATOM	5505 N SER 176	21.785 28.173 72.339 1.00 3.33 E
ATOM	5506 H SER 176	22.594 27.648 72.186 1.00 0.00 E
ATOM	5507 CA SER 176	20.800 28.222 71.300 1.00 3.33 E
ATOM	5508 CB SER 176	21.492 28.400 69.972 1.00 17.00 E
ATOM	5509 OG SER 176	20.929 29.456 69.240 1.00 17.00 E
ATOM	5510 HG SER 176	19.991 29.496 69.417 1.00 0.00 E
ATOM	5511 C SER 176	20.067 26.880 71.250 1.00 3.33 E
ATOM	5512 O SER 176	20.697 25.826 71.349 1.00 17.00 E
ATOM	5513 N SER 177	18.745 26.885 71.122 1.00 13.48 E
ATOM	5514 H SER 177	18.251 27.726 71.126 1.00 0.00 E
ATOM	5515 CA SER 177	18.054 25.615 70.983 1.00 13.48 E
MOTA	5516 CB SER 177 5517 OG SER 177	17.338 25.219 72.260 1.00 15.43 E
ATOM ATOM		17.009 23.837 72.187 1.00 15.43 E
ATOM	5518 HG SER 177 5519 C SER 177	16.349 23.658 72.873 1.00 0.00 E
ATOM	5520 O SER 177	17.072 25.732 69.830 1.00 13.48 E
ATOM	5521 N THR 178	16.206 26.593 69.830 1.00 15.43 E
ATOM	5522 H THR 178	17.236 24.869 68.832 1.00 2.31 E 17.948 24.210 68.897 1.00 0.00 E
ATOM	5523 CA THR 178	
ATOM	5524 CB THR 178	
ATOM	5525 OG1 THR 178	
ATOM	5526 HG1 THR 178	18.064 26.097 66.428 1.00 14.10 E 17.587 26.880 66.688 1.00 0.00 E
ATOM	5527 CG2 THR 178	16.243 25.100 65.186 1.00 14.10 E
ATOM	5528 C THR 178	45 465 66 66 66 66 66 66
ATOM	5529 O THR 178	15.497 23.727 67.514 1.00 2.31 E 15.961 22.630 67.457 1.00 14.10 E
ATOM	5530 N LEU 179	44.000
ATOM	5531 H LEU 179	14.205 23.989 67.440 1.00 2.00 E 13.925 24.924 67.496 1.00 0.00 E
ATOM	5532 CA LEU 179	40 400 00 000 00 000
ATOM	5533 CB LEU 179	13.190 22.962 67.281 1.00 2.00 E 11.999 23.280 68.190 1.00 7.84 E
ATOM	5534 CG LEU 179	10.774 22.370 68.019 1.00 7.84 E
ATOM	5535 CD1 LEU 179	10.996 21.096 68.813 1.00 7.84 E
ATOM	5536 CD2 LEU 179	9.519 23.067 68.478 1.00 7.84 E
ATOM	5537 C LEU 179	12.776 22.994 65.821 1.00 2.00 E
MOTA	5538 O LEU 179	12.090 23.856 65.436 1.00 7.84 E
ATOM	5539 N THR 180	13.237 22.049 65.021 1.00 12.73 E
MOTA	5540 H THR 180	13.810 21.352 65.400 1.00 0.00 E
ATOM	5541 CA THR 180	12.933 21.989 63.593 1.00 12.73 E

ATOM	5542 CB THR 180	14.115 21.428 62.829 1.00 23.25 E
ATOM	5543 OG1 THR 180	15.313 22.118 63.233 1.00 23.25 E
ATOM	5544 HG1 THR 180	15.949 21.485 63.573 1.00 0.00 E
ATOM	5545 CG2 THR 180	13.897 21.587 61.351 1.00 23.25 E
ATOM	5546 C THR 180	
ATOM	5547 O THR 180	11.722 19.944 63.541 1.00 23.25 E
ATOM	5548 N LEU 181	10.715 21.741 62.695 1.00 9.14 E
MOTA	5549 H LEU 181	10.771 22.659 62.472 1.00 0.00 E
MOTA	5550 CA LEU 181	9.525 21.001 62.394 1.00 9.14 E
ATOM	5551 CB LEU 181	8.373 21.581 63.185 1.00 9.99 E
ATOM	5552 CG LEU 181	8.354 21.326 64.683 1.00 9.99 E
ATOM	5553 CD1 LEU 181	7.704 22.427 65.409 1.00 9.99 E
ATOM	5554 CD2 LEU 181	7.568 20.122 64.913 1.00 9.99 E
ATOM	5555 C LEU 181	9.178 21.073 60.920 1.00 9.14 E
ATOM	5556 O LEU 181	9.682 21.958 60.199 1.00 9.99 E
ATOM	5557 N SER 182	8.348 20.136 60.452 1.00 13.49 E
ATOM	5558 H SER 182	8.056 19.411 61.043 1.00 0.00 E
ATOM	5559 CA SER 182	7.879 20.181 59.076 1.00 13.49 E
MOTA	5560 CB SER 182	7.082 18.926 58.730 1.00 21.73 E
MOTA	5561 OG SER 182	5.730 19.052 59.149 1.00 21.73 E
ATOM	5562 HG SER 182	5.146 19.093 58.392 1.00 0.00 E
MOTA	5563 C SER 182	6.914 21.394 59.059 1.00 13.49 E
ATOM	5564 O SER 182	6.314 21.740 60.080 1.00 21.73 E
MOTA	5565 N LYS 183	6.772 22.025 57.901 1.00 20.60 E
ATOM	5566 H LYS 183	7.271 21.703 57.121 1.00 0.00 E
ATOM	5567 CA LYS 183	5.903 23.164 57.775 1.00 20.60 E
ATOM	5568 CB LYS 183	5.998 23.711 56.350 1.00 37.92 E
ATOM	5569 CG LYS 183	5.533 25.173 56.171 1.00 37.92 E
ATOM	5570 CD LYS 183	5.007 25.411 54.755 1.00 37.92 E
ATOM	5571 CE LYS 183	3.999 26.555 54.678 1.00 37.92 E
ATOM	5572 NZ LYS 183	4.584 27.810 54.120 1.00 37.92 E
ATOM	5573 HZ1 LYS 183	3.904 28.240 53.456 1.00 0.00 E
ATOM	5574 HZ2 LYS 183	5.467 27.596 53.624 1.00 0.00 E
MOTA	5575 HZ3 LYS 183	4.774 28.484 54.895 1.00 0.00 E
ATOM	5576 C LYS 183	4.455 22.777 58.089 1.00 20.60 E
ATOM	5577 O LYS 183	3.584 23.628 58.299 1.00 37.92 E
MOTA	5578 N ALA 184	4.200 21.482 58.160 1.00 21.72 E
MOTA	5579 H ALA 184	4.923 20.829 58.065 1.00 0.00 E
MOTA	5580 CA ALA 184	2.847 21.031 58.382 1.00 21.72 E
MOTA	5581 CB ALA 184	2.529 19.893 57.445 1.00 24.25 E
MOTA		2.550 20.640 59.791 1.00 21.72 E
MOTA	5583 O ALA 184	1.386 20.485 60.140 1.00 24.25 E
ATOM	5584 N ASP 185	3.577 20.438 60.604 1.00 29.79 E
ATOM	5585 H ASP 185	4.495 20.486 60.266 1.00 0.00 E
ATOM	5586 CA ASP 185	3.303 20.129 62.009 1.00 29.79 E
ATOM	5587 CB ASP 185	4.506 19.464 62.700 1.00 42.17 E
ATOM	5588 CG ASP 185	4.576 17.953 62.498 1.00 42.17 E
ATOM	5589 OD1 ASP 185	3.590 17.310 62.053 1.00 42.17 E
ATOM	5590 OD2 ASP 185	5.670 17.413 62.793 1.00 42.17 E
ATOM	5591 C ASP 185	3.106 21.515 62.632 1.00 29.79 E
ATOM	5592 O ASP 185	2.267 21.720 63.534 1.00 42.17 E
ATOM	5593 N TYR 186	3.912 22.457 62.140 1.00 21.97 E
ATOM	5594 H TYR 186	4.544 22.218 61.427 1.00 0.00 E
ATOM	5595 CA TYR 186	3.884 23.833 62.623 1.00 21.97 E
ATOM	5596 CB TYR 186	5.018 24.664 62.004 1.00 9.37 E
ATOM	5597 CG TYR 186	5.166 25.970 62.705 1.00 9.37 E

ATOM	5598	CD1 TYR 186	5.448 26.012 64.053 1.00 9.37	E
ATOM		CE1 TYR 186	5.460 27.187 64.734 1.00 9.37	Ē
ATOM		CD2 TYR 186	4.907 27.163 62.047 1.00 9.37	Ë
ATOM	5601	CE2 TYR 186	4.918 28.364 62.739 1.00 9.37	E
ATOM	5602	CZ TYR 186	5.191 28.356 64.087 1.00 9.37	E
ATOM	5603	OH TYR 186	5.130 29.521 64.804 1.00 9.37	Ε
ATOM	5604	HH TYR 186	5.886 30.065 64.577 1.00 0.00	Ε
ATOM	5605		2.549 24.459 62.292 1.00 21.97	Ē
ATOM	5606		2.052 25.322 63.014 1.00 9.37	Ē
ATOM	5607		1.985 24.008 61.177 1.00 17.96	E
ATOM			2.474 23.351 60.633 1.00 0.00	
	5608			E
ATOM		CA GLU 187	0.678 24.453 60.717 1.00 17.96	E
ATOM		CB GLU 187	0.477 23.937 59.288 1.00 47.36	E
ATOM	5611		-0.905 24.149 58.703 1.00 47.36	E
ATOM	5612	CD GLU 187	-1.630 22.840 58.282 1.00 47.36	E
ATOM	5613	OE1 GLU 187	-2.897 22.876 58.168 1.00 47.36	Ε
ATOM	5614	OE2 GLU 187	-0.952 21.796 58.068 1.00 47.36	Ε
ATOM	5615		-0.330 23.797 61.702 1.00 17.96	E
ATOM	5616		-1.379 24.366 62.010 1.00 47.36	Ē
ATOM	5617		0.061 22.623 62.225 1.00 28.88	E
ATOM	5618		0.954 22.307 61.968 1.00 0.00	E_
ATOM		CA LYS 188	-0.717 21.763 63.152 1.00 28.88	E
ATOM		CB LYS 188	-0.134 20.345 63.117 1.00 43.96	Ε
ATOM	5621	CG LYS 188	-1.109 19.244 62.707 1.00 43.96	Ε
ATOM	5622	CD LYS 188	-0.624 18.503 61.452 1.00 43.96	E
ATOM	5623	CE LYS 188	0.188 17.230 61.783 1.00 43.96	E
ATOM	5624	NZ LYS 188	0.781 17.177 63.175 1.00 43.96	Ε
ATOM		HZ1 LYS 188	1.361 18.035 63.294 1.00 0.00	Ē
ATOM		HZ2 LYS 188	1.408 16.347 63.235 1.00 0.00	Ē
ATOM		HZ3 LYS 188	0.056 17.116 63.919 1.00 0.00	Ē
ATOM	5628	C LYS 188		
			-0.822 22.145 64.616 1.00 28.88	Ē
ATOM	5629	O LYS 188	-1.431 21.422 65.395 1.00 43.96	_E
ATOM	5630	N HIS 189		Ε
ATOM	5631	H HIS 189		Ξ
ATOM		CA HIS 189	-0.272 23.625 66.406 1.00 4.34	E
ATOM		CB HIS 189	0.852 22.935 67.159 1.00 14.87	Ε
ATOM	5634	CG HIS 189	0.863 21.464 66.968 1.00 14.87	Ε
ATOM	5635	CD2 HIS 189	1.700 20.657 66.275 1.00 14.87	E
ATOM	5636	ND1 HIS 189	-0.084 20.650 67.536 1.00 14.87	E
ATOM	5637	HD1 HIS 189	-0.837 20.941 68.083 1.00 0.00	Ē
ATOM		CE1 HIS 189	0.175 19.394 67.210 1.00 14.87	E
ATOM		NE2 HIS 189	1.254 19.369 66.448 1.00 14.87	Ē
ATOM		HE2 HIS 189	1.656 18.547 66.091 1.00 0.00	E
ATOM	5641	C HIS 189		
ATOM	5642			Ξ_
				E
MOTA	5643			E
ATOM	5644		-1.235 24.646 68.397 1.00 0.00	E
ATOM		CA LYS 190	-1.067 26.746 68.359 1.00 8.07	Ε
ATOM		CB LYS 190	-2.332 26.796 69.226 1.00 26.92	Ε
ATOM		CG LYS 190	-2.512 28.047 70.015 1.00 26.92	E
ATOM	5648	CD LYS 190	-3.279 29.067 69.202 1.00 26.92	Ε
ATOM		CE LYS 190	-2.349 30.084 68.517 1.00 26.92	Ē
ATOM		NZ LYS 190	-3.110 31.033 67.627 1.00 26.92	Ē
ATOM		HZ1 LYS 190	-4.110 30.752 67.607 1.00 0.00	Ē
ATOM		HZ2 LYS 190	-2.716 30.984 66.665 1.00 0.00	Ë
ATOM		HZ3 LYS 190	-3.018 32.000 67.997 1.00 0.00	E
• • • • • • • • • • • • • • • • •			-3.575 32.000 07.887 1.00 0.00	_

ATOM	5654 C LYS 190	0.097 27.279 69.151 1.00 8.07	E
		0.784 28.206 68.698 1.00 26.92	E
ATOM	5655 O LYS 190		
ATOM	5656 N VAL 191	0.341 26.687 70.316 1.00 2.00	E
ATOM	5657 H VAL 191	-0.192 25.923 70.600 1.00 0.00	E
MOTA	5658 CA VAL 191	1.399 27.185 71.162 1.00 2.00	Ε
MOTA	5659 CB VAL 191	0.825 27.537 72.592 1.00 19.12	E
MOTA	5660 CG1 VAL 191	-0.663 27.206 72.646 1.00 19.12	Ε
ATOM	5661 CG2 VAL 191	1.587 26.850 73.680 1.00 19.12	E
ATOM	5662 C VAL 191	2.707 26.434 71.260 1.00 2.00	E
ATOM	5663 O VAL 191	2.742 25.243 71.561 1.00 19.12	Ē
ATOM	5664 N TYR 192	3.778 27.196 71.002 1.00 20.71	Ē
ATOM	5665 H TYR 192	3.601 28.134 70.779 1.00 0.00	E
MOTA	5666 CA TYR 192	5.170 26.759 71.023 1.00 20.71	E
ATOM	5667 CB TYR 192	5.848 27.212 69.736 1.00 16.83	Ē
ATOM	5668 CG TYR 192	5.372 26.364 68.597 1.00 16.83	E
MOTA	5669 CD1 TYR 192	5.901 25.076 68.386 1.00 16.83	Ε
MOTA	5670 CE1 TYR 192	5.343 24,236 67.441 1.00 16.83	Ε
MOTA	5671 CD2 TYR 192	4.274 26.775 67.818 1.00 16.83	Ε
MOTA	5672 CE2 TYR 192	3.713 25.941 66.877 1.00 16.83	Ε
ATOM	5673 CZ TYR 192	4.242 24.680 66.687 1.00 16.83	E
ATOM	5674 OH TYR 192	3.670 23.878 65.726 1.00 16.83	Ε
MOTA	5675 HH TYR 192	3.136 24.411 65.136 1.00 0.00	E
ATOM	5676 C TYR 192	5.864 27.362 72.226 1.00 20.71	Ε
MOTA	5677 O TYR 192	5.899 28.590 72.353 1,00 16.83	E
ATOM	5678 N ALA 193	6.424 26.515 73.098 1.00 2.00	E
ATOM	5679 H ALA 193	6,405 25,557 72,924 1.00 0.00	E
ATOM	5680 CA ALA 193	7.062 27.017 74.296 1.00 2.00	E
ATOM	5681 CB ALA 193	6.217 26.733 75.493 1.00 10.47	E
ATOM	5682 C ALA 193	8.450 26.526 74.565 1.00 2.00	E
ATOM	5683 O ALA 193	8.801 25.399 74.261 1.00 10.47	Ē
ATOM	5684 N CYS 194	9.202 27.389 75.233 1.00 7.63	Ē
ATOM	5685 H CYS 194	8.815 28.236 75.477 1.00 0.00	Ē
ATOM	5686 CA CYS 194	10.555 27.107 75.632 1.00 7.63	Ē
ATOM	5687 C CYS 194	10.666 27.087 77.201 1.00 7.63	E
ATOM	5688 O CYS 194	10.652 28.094 77.874 1.00 4.45	Ē
ATOM	5689 CB CYS 194	11.496 28.170 74.998 1.00 4.45	Ē
ATOM	5690 SG CYS 194	13.194 27.640 75.257 1.00 4.45	E
ATOM	5691 N GLU 195	10.776 25.919 77.784 1.00 4.53	E
ATOM	5692 H GLU 195	10.774 25.096 77.266 1.00 0.00	Ē
ATOM	5693 CA GLU 195	10.902 25.863 79.226 1.00 4.53	E
ATOM		10.145 24.700 79.801 1.00 20.87	
ATOM	5695 CG GLU 195	10.033 24.857 81.283 1.00 20.87	_
ATOM	5696 CD GLU 195		E
ATOM	5697 OE1 GLU 195	9.269 23.747 81.938 1.00 20.87	Ē
ATOM		9.774 22.614 81.899 1.00 20.87	E
ATOM		8.172 24.010 82.489 1.00 20.87	Ę
	5699 C GLU 195	12.348 25.695 79.606 1.00 4.53	E
ATOM	5700 O GLU 195	13.044 24.835 79.033 1.00 20.87	E
ATOM	5701 N VAL 196	12.819 26.516 80.560 1.00 3.79	E
ATOM	5702 H VAL 196	12.231 27.183 80.972 1.00 0.00	E
ATOM	5703 CA VAL 196	14.202 26.413 80.970 1.00 3.79	E
ATOM	5704 CB VAL 196	15.094 27.442 80.282 1.00 9.01	E
MOTA	5705 CG1 VAL 196	14.256 28.428 79.502 1.00 9.01	E
MOTA	5706 CG2 VAL 196	16.036 28.069 81.326 1.00 9.01	_E
MOTA	5707 C VAL 196	14.525 26.389 82.421 1.00 3.79	E
MOTA	5708 O VAL 196	13.955 27.105 83.192 1.00 9.01	E
MOTA	5709 N THR 197	15.472 25.521 82.750 1.00 2.63	Ε

ATOM	1 5710 H THR 197	15.883 24.995 82.041 1.00 0.00 E
ATOM		15.939 25.295 84.102 1.00 2.63 E
ATOM		
		17.382 25.689 84.181 1.00 2.63 E
ATOM		18.140 25.386 83.283 1.00 10.17 E
ATOM		17.735 26.350 85.274 1.00 7.86 E
ATOM		17.043 26.528 85.945 1.00 0.00 E
ATOM		19.093 26.839 85.584 1.00 7.86 E
ATOM		19.486 28.011 84.689 1.00 5.34 E
ATOM		20.886 28.465 84.885 1.00 5.34 E
ATOM		22.007 28.225 84.176 1.00 5.34 E
ATOM		21.248 29.335 85.882 1.00 5.34 E
ATOM		20.666 29.704 86.579 1.00 0.00 E
ATOM		22.533 29.620 85.775 1.00 5.34 E
MOTA		23.015 28.960 84.745 1.00 5.34 E
ATOM		23.928 29.011 84.414 1.00 0.00 E
ATOM	5729 C HIS 198	19.011 27.307 87.018 1.00 7.86 E
ATOM		17.972 27.835 87.433 1.00 5.34 E
ATOM		20.098 27.111 87.762 1.00 2.00 E
ATOM		20.914 26.742 87.352 1.00 0.00 E
MOTA		20.125 27.448 89.198 1.00 2.00 E
ATOM		21.380 26.961 89.878 1.00 12.95 E
MOTA		22.658 27.666 89.554 1.00 12.95 E
ATOM		23.862 26.801 89.930 1.00 12.95 E
MOTA	5737 OE1 GLN 199	24.428 27.000 91.002 1.00 12.95 E
ATOM	5738 NE2 GLN 199	24.246 25.833 89.062 1.00 12.95 E
ATOM	5739 HE21 GLN 199	25.020 25.279 89.288 1.00 0.00 E
ATOM		23.721 25.731 88.242 1.00 0.00 E
ATOM		19.960 28.841 89.563 1.00 2.00 E
ATOM		19.856 29.131 90.727 1.00 12.95 E
MOTA		19.935 29.710 88.569 1.00 11.43 E
ATOM	5744 H GLY 200	20.040 29.395 87.648 1.00 0.00 E
ATOM	5745 CA GLY 200	19.757 31.115 88.847 1.00 11.43 E
ATOM	5746 C GLY 200	18.285 31.401 88.942 1.00 11.43 E
ATOM	5747 O GLY 200	17.858 32.525 89.281 1.00 20.99 E
ATOM	5748 N LEU 201	17.528 30.358 88.604 1.00 13.02 E
ATOM	5749 H LEU 201	17.984 29.543 88.324 1.00 0.00 E
ATOM	5750 CA LEU 201	16.087 30.374 88.608 1.00 13.02 E
ATOM	5751 CB LEU 201	15.616 29.796 87.286 1.00 5.14 E
ATOM	5752 CG LEU 201	15.366 30.714 86.082 1.00 5.14 E
ATOM	5753 CD1 LEU 201	16.037 32.070 86.183 1.00 5.14 E
ATOM	5754 CD2 LEU 201	15.824 29.910 84.855 1.00 5.14 E
ATOM	5755 C LEU 201	15.509 29.586 89.831 1.00 13.02 E
MOTA	5756 O LEU 201	16.096 28.617 90.283 1.00 5.14 E
MOTA	5757 N SER 202	14.369 30.024 90.373 1.00 6.88 E
MOTA	5758 H SER 202	13.922 30.799 89.981 1.00 0.00 E
ATOM	5759 CA SER 202	13.782 29.366 91.516 1.00 6.88 E
ATOM	5760 CB SER 202	12.727 30.233 92.142 1.00 17.09 E
MOTA	5761 OG SER 202	13.307 31.040 93.105 1.00 17.09 E
MOTA	5762 HG SER 202	13.811 30.484 93.705 1.00 0.00 E
	5763 C SER 202	13.099 28.205 90.900 1.00 6.88 E
MOTA MOTA		13.137 27.067 91.370 1.00 17.09 E
NI OIVI	5765 N SER 203	12.430 28.517 89.828 1.00 10.13 E

ATOM	5766 H SER 203	12.408 29,443 89.502 1.00 0.00	Ε
ATOM	5767 CA SER 203	11.718 27.492 89.153 1.00 10.13	E
ATOM	5768 CB SER 203	10.273 27,442 89.676 1.00 25.81	E
ATOM	5769 OG SER 203	9.417 28.332 88.972 1.00 25.81	E
ATOM	5770 HG SER 203	9.936 29.070 88.634 1.00 0.00	E
ATOM	5771 C SER 203	11.769 27.884 87.711 1.00 10.13	Ē
ATOM	5772 O SER 203	12.033 29.037 87.407 1.00 25.81	E
ATOM	5773 N PRO 204	11.544 26.917 86.823 1.00 2.28	Ε
ATOM	5774 CD PRO 204	11.364 25.533 87.276 1.00 2.00	E
ATOM	5775 CA PRO 204	11.516 26.968 85.367 1.00 2.28	Ε
ATOM	5776 CB PRO 204	10.729 25.728 84.998 1.00 2.00	E
ATOM	5777 CG PRO 204	11.167 24.772 85.972 1.00 2.00	Ē
MOTA	5778 C PRO 204	10.913 28.207 84.760 1.00 2.28	E
ATOM	5779 O PRO 204	9.882 28.698 85.198 1.00 2.00	Ε
ATOM	5780 N VAL 205	11.561 28.726 83.735 1.00 2.00	E
MOTA	5781 H VAL 205	12.399 28.328 83.428 1.00 0.00	E
ATOM	5782 CA VAL 205	11.038 29.892 83.065 1.00 2.00	Ε
ATOM	5783 CB VAL 205	12.080 30.970 83.039 1.00 6.59	Ē
	5784 CG1 VAL 205	11.570 32.199 82.390 1.00 6.59	
ATOM			E
ATOM	5785 CG2 VAL 205	12.501 31.219 84.440 1.00 6.59	_E
ATOM	5786 C VAL 205	10.665 29.495 81.662 1.00 2.00	E
ATOM	5787 O VAL 205	11.502 28.977 80.947 1.00 6.59	E
MOTA	5788 N THR 206	9.414 29.689 81.256 1.00 25.81	E
ATOM	5789 H THR 206	8.742 30.053 81.877 1.00 0.00	Ε
ATOM	5790 CA THR 206	9.064 29.328 79.885 1.00 25.81	E
ATOM	5791 CB THR 206		Ē
			_
ATOM	5792 OG1 THR 206	6.669 29.075 80.300 1.00 19.50	E
ATOM	5793 HG1 THR 206	6.398 28.705 81.144 1.00 0.00	Ε
ATOM	5794 CG2 THR 206	7.938 27.200 80.633 1.00 19.50	E
ATOM	5795 C THR 206	8.810 30.561 79.017 1.00 25.81	E
ATOM	5796 O THR 206	8.297 31.554 79.498 1.00 19.50	E
ATOM	5797 N LYS 207	9.227 30.553 77.761 1.00 12.05	Ē
ATOM	5798 H LYS 207	9.770 29.817 77.414 1.00 0.00	Ē
ATOM	5799 CA LYS 207		_
		8.848 31.666 76.905 1.00 12.05	E
ATOM	5800 CB LYS 207	10.055 32.384 76.333 1.00 4.19	E
ATOM	5801 CG LYS 207	9.964 33.857 76.418 1.00 4.19	Ε
ATOM	5802 CD LYS 207	10.584 34.378 77.642 1.00 4.19	Ε
ATOM	5803 CE LYS 207	10.206 35.833 77.817 1.00 4.19	E
ATOM	5804 NZ LYS 207	9.849 36,518 76,547 1.00 4.19	E
ATOM	5805 HZ1 LYS 207	8.972 36.138 76.163 1.00 0.00	E
ATOM	5806 HZ2 LYS 207	10.621 36.373 75.870 1.00 0.00	Ē
ATOM	5807 HZ3 LYS 207	9.738 37.543 76.717 1.00 0.00	_
ATOM			E
		8.067 30.962 75.802 1.00 12.05	E
MOTA	5809 O LYS 207	8.425 29.815 75.415 1.00 4.19	E
MOTA	5810 N SER 208	6.989 31.598 75.329 1.00 10.61	E
ATOM	5811 H SER 208	6.740 32.470 75.695 1.00 0.00	E
ATOM	5812 CA SER 208	6.185 30.994 74.268 1.00 10.61	Ε
ATOM	5813 CB SER 208	5.128 30.100 74.868 1.00 22.93	E
ATOM	5814 OG SER 208	4.708 30.605 76.113 1.00 22.93	E
ATOM	5815 HG SER 208		
		3.826 30.289 76.291 1.00 0.00	Ε
ATOM		5.524 31,994 73.327 1.00 10.61	E
ATOM	5817 O SER 208	5.453 33.210 73.609 1.00 22.93	Ε
ATOM	5818 N PHE 209	5.050 31.474 72.202 1.00 10.31	Ε
MOTA	5819 H PHE 209	5.154 30.509 72.051 1.00 0.00	E
MOTA	5820 CA PHE 209	4.386 32.264 71.172 1.00 10.31	Ε
ATOM	5821 CB PHE 209	5.354 32.691 70.069 1.00 12.07	Ē
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ATOM		5.749 31.596 69.147 1.00 12.07	E
ATOM		7.056 31.151 69.122 1.00 12.07	E
ATOM		4.829 31.022 68.305 1.00 12.07	E
ATOM		7.436 30.163 68.281 1.00 12.07	E
ATOM		5.202 30.007 67.436 1.00 12.07	E
ATOM		6.493 29.573 67.415 1.00 12.07	Ε
ATOM	5828 C PHE 209	3.244 31.492 70.556 1.00 10.31	Ε
ATOM		3.352 30.308 70.313 1.00 12.07	E
ATOM		2.150 32.189 70.299 1.00 19.08	Ε
ATOM		2.112 33.145 70.498 1.00 0.00	E
ATOM	5832 CA ASN 210	0.995 31.560 69.738 1.00 19.08	E
ATOM	5833 CB ASN 210	-0.257 32.261 70.215 1.00 22.00	E
ATOM	5834 CG ASN 210	-0.566 31.957 71.669 1.00 22.00	E
MOTA	5835 OD1 ASN 210	-1.091 32.807 72.400 1.00 22.00	E
ATOM	5836 ND2 ASN 210	-0.249 30.740 72.101 1.00 22.00	Ε
MOTA	5837 HD21 ASN 210		Ē
MOTA	5838 HD22 ASN 210		E
MOTA	5839 C ASN 210	1.137 31.677 68.273 1.00 19.08	E
MOTA	5840 O ASN 210	1.148 32.776 67.760 1.00 22.00	Ē
MOTA	5841 N ARG 211	1.281 30.523 67.619 1.00 15.32	Ē
MOTA	5842 H ARG 211	1.300 29.714 68.135 1.00 0.00	Ē
MOTA	5843 CA ARG 211	1.423 30.454 66.181 1.00 15.32	Ē
MOTA	5844 CB ARG 211	1.313 29.023 65.710 1.00 31.07	Ē
MOTA	5845 CG ARG 211	2.205 28.744 64.519 1.00 31.07	Ē
MOTA	5846 CD ARG 211	1.424 28.333 63.299 1.00 31.07	Ē
MOTA	5847 NE ARG 211	0.365 27.415 63.655 1.00 31.07	Ē
ATOM	5848 HE ARG 211	0.565 26.712 64.302 1.00 0.00	E
MOTA	5849 CZ ARG 211	-0.851 27.471 63.148 1.00 31.07	E
MOTA	5850 NH1 ARG 211	-1.153 28.405 62.265 1.00 31.07	Ē
MOTA	5851 HH11 ARG 211	-2.101 28.476 61.946 1.00 0.00	Ē
MOTA	5852 HH12 ARG 211	-0.497 29.125 62.055 1.00 0.00	Ē
ATOM	5853 NH2 ARG 211	-1.765 26.600 63.542 1.00 31.07	E
MOTA	5854 HH21 ARG 211	-1.715 26.233 64.470 1.00 0.00	Ē
MOTA	5855 HH22 ARG 211	-2.336 26.135 62.864 1.00 0.00	Ē
MOTA	5856 C ARG 211	0.387 31.300 65.474 1.00 15.32	E
MOTA	5857 O ARG 211	-0.668 31.569 66.076 1.00 31.07	Ē
MOTA	5858 OT ARG 211	0.647 31.706 64.332 1.00 31.07	E
ATOM	5859 CB GLN 1	49.417 46.357 60.733 1.00 58.48	В
ATOM	5860 CG GLN 1	48.691 44.994 60.560 1.00 58.48	В
ATOM	5861 CD GLN 1	47.409 44.844 61.415 1.00 58.48	В
ATOM	5862 OE1 GLN 1	47.474 44.612 62.641 1.00 58.48	В
ATOM	5863 NE2 GLN 1	46.242 44.967 60.763 1.00 58.48	В
MOTA	5864 HE21 GLN 1	45.635 44.186 60.774 1.00 0.00	В
ATOM	5865 HE22 GLN 1	46.036 45.802 60.303 1.00 0.00	В
ATOM		51.373 45.063 59.758 1.00 20.31	В
ATOM	5867 O GLN 1	51.199 45.010 58.532 1.00 58.48	В
ATOM	5868 HT1 GLN 1	52.451 47.526 59.758 1.00 0.00	В
ATOM	5869 HT2 GLN 1	51.293 48.384 60.654 1.00 0.00	В
ATOM	5870 N GLN 1 5	51.436 47.604 59.984 1.00 20.31	В
MOTA	5871 HT3 GLN 1	50.909 47.795 59.112 1.00 0.00	В
MOTA	5872 CA GLN 1	50.957 46.315 60.577 1.00 20.31	В
ATOM			В
MOTA		2.047 44.156 61.415 1.00 0.00 E	3
MOTA		52.273 42.801 59.778 1.00 17.69	В
ATOM	5876 CB VAL 2		В
MOTA	5877 CG1 VAL 2	53.265 40.555 60.178 1.00 7.51	В

ATOM	5878 CG2 VAL	2	54.755 42.622 60.318 1.00 7.51	В
MOTA	5879 C VAL	2	51.025 41.918 59.596 1.00 17.69	В
ATOM	5880 O VAL	2	50,305 41,593 60,553 1.00 7,51	В
ATOM	5881 N GLN	3	50.739 41.544 58.359 1.00 24.60	В
ATOM	5882 H GLN	3	51,302 41.818 57.609 1.00 0.00	В
			49,566 40.729 58.133 1.00 24.60	
MOTA	5883 CA GLN	3		В
MOTA	5884 CB GLN	3	48.481 41.543 57.442 1.00 43.98	В
MOTA	5885 CG GLN	3	47.122 41.014 57.705 1.00 43.98	В
ATOM	5886 CD GLN	3	46.144 42.117 57.993 1.00 43.98	В
MOTA	5887 OE1 GLN	3	46.016 42.569 59.138 1.00 43.98	В
ATOM	5888 NE2 GLN	3	45.445 42.574 56.951 1.00 43.98	В
ATOM	5889 HE21 GLN		45.586 43.502 56.673 1.00 0.00	В
MOTA	5890 HE22 GLN	3	44.821 41.966 56.507 1.00 0.00	В
MOTA	5891 C GLN	3	49.805 39.455 57.338 1.00 24.60	В
MOTA	5892 O GLN	3	50.508 39.449 56.322 1.00 43.98	В
ATOM	5893 N LEU	4	49.199 38.379 57.816 1.00 10.71	В
ATOM	5894 H LEU	4	48.677 38.442 58.640 1.00 0.00	В
ATOM	5895 CA LEU	4	49.297 37.124 57.144 1.00 10.71	В
ATOM	5896 CB LEU	4	50.001 36.111 58.037 1.00 18.74	В
ATOM	5897 CG LEU	4	51.519 36.246 58.108 1.00 18.74	В
ATOM	5898 CD1 LEU	4	52.054 35.012 58.784 1.00 18.74	В
ATOM	5899 CD2 LEU	4	52.124 36.435 56.721 1.00 18.74	В
ATOM	5900 C LEU	4	47.865 36.687 56.832 1.00 10.71	в
ATOM	5901 O LEU	4	47.091 36.427 57.735 1.00 18.74	В
ATOM	5902 N VAL	5	47.524 36.600 55.553 1.00 2.66	В
ATOM	5903 H VAL	5	48.184 36.782 54.859 1.00 0.00	В
ATOM	5904 CA VAL	5	46.178 36.238 55.175 1.00 2.66	В
ATOM	5905 CB VAL	5	45.481 37.430 54.500 1.00 14.58	В
ATOM	5906 CG1 VAL	5	44.267 36.967 53.678 1.00 14.58	В
ATOM	5907 CG2 VAL	5	45.066 38.396 55.575 1.00 14.58	В
ATOM	5907 CG2 VAL	5	45.985 35.018 54.304 1.00 2.66	В
ATOM	5909 O VAL	5	46.116 35.117 53.092 1.00 14.58	В
ATOM	5910 N GLN	6	45,615 33.896 54.911 1.00 2.00	В
ATOM	5911 H GLN	6	45.469 33.907 55.866 1.00 0.00	В
ATOM	5912 CA GLN	6	45.407 32.627 54.175 1.00 2.00	
ATOM	5912 CA GLN 5913 CB GLN			В
	5913 CB GLN 5914 CG GLN	6	45.561 31.435 55.104 1.00 9.88	В
ATOM ATOM		6	46.735 31.511 55.994 1.00 9.88	В
	5915 CD GLN	6	46.705 30.404 56.952 1.00 9.88	В
MOTA	5916 OE1 GLN	6	46.925 30.583 58.165 1.00 9.88	В
MOTA	5917 NE2 GLN	6	46.401 29.221 56.444 1.00 9.88	В
MOTA	5918 HE21 GLN	-	47.099 28.726 55.969 1.00 0.00	В
MOTA	5919 HE22 GLN	6	45.487 28.897 56.573 1.00 0.00	_ B
ATOM	5920 C GLN	6	44.108 32.400 53.400 1.00 2.00	В
ATOM	5921 O GLN	6	43.039 32.998 53.652 1.00 9.88	В
MOTA	5922 N SER	7	44.236 31.483 52.459 1.00 16.61	В
ATOM	5923 H SER	7_	45.103 31.061 52.332 1.00 0.00	В
ATOM	5924 CA SER	7	43.138 31.072 51.603 1.00 16.61	В
ATOM	5925 CB SER	7	43.662 30.049 50.598 1.00 23.30	В
ATOM	5926 OG SER	7	44.327 28.972 51.260 1.00 23.30	В
ATOM	5927 HG SER	7	44.455 29.199 52.182 1.00 0.00	В
ATOM	5928 C SER	7	41.950 30.459 52.382 1.00 16.61	В
ATOM	5929 O SER	7	42.091 30.033 53.530 1.00 23.30	В
ATOM	5930 N GLY	8	40.794 30.408 51.705 1.00 11.92	В
ATOM	5931 H GLY	8	40.775 30.742 50.785 1.00 0.00	В
ATOM	5932 CA GLY	8	39.575 29.858 52.268 1.00 11.92	В
ATOM	5933 C GLY	8	39.559 28.334 52.457 1.00 11.92	В

ATOM	5934	O GLY	8	40.299 27.593 51.780 1.00 17.67	В
ATOM	5935	N ALA	9	38.696 27.887 53.384 1.00 17.63	В
ATOM	5936		9	38.148 28.553 53.837 1.00 0.00	В
ATOM	5937		9	38.517 26.485 53.760 1.00 17.63	В
ATOM	5938		9	37.621 26.395 54.946 1.00 25.59	В
ATOM	5939		9	37.940 25.672 52.618 1.00 17.63	В
ATOM	5940		9	36.899 26.026 52.079 1.00 25.59	В
ATOM	5941		10	38.611 24.568 52.280 1.00 24.90	В
ATOM	5942		10	39.397 24.322 52.808 1.00 0.00	В
ATOM	5943			38.219 23.707 51.170 1.00 24.90	В
ATOM		CB GLU		39.394 23.627 50.175 1.00 29.71	В
ATOM	5945			39.322 24.574 48.996 1.00 29.71	В
ATOM	5946			40.526 25.531 48.883 1.00 29.71	В
ATOM		OE1 GLU		41.654 25.100 48.517 1.00 29.71	В
ATOM	5948			40.336 26.742 49.153 1.00 29.71	В
ATOM	5949		10	37.858 22.289 51.629 1.00 24.90	В
ATOM	5950		10	38.400 21.805 52.620 1.00 29.71	В
ATOM	5951	N VAL	11	36.934 21.640 50.919 1.00 23.36	
ATOM	5952		11	36.491 22.112 50.179 1.00 23.38	B B
ATOM		CA VAL			_
ATOM		CB VAL	11 11	36.588 20.235 51.206 1.00 23.36 35.184 19.873 50.860 1.00 13.63	В
ATOM	5955				B B
ATOM	5956			34.600 19.116 51.971 1.00 13.63 34.389 21.072 50.534 1.00 13.63	В
ATOM	5957		11	37.406 19.461 50.184 1.00 13.65	
ATOM	5958	O VAL	11	37.476 19.461 50.164 1.00 23.36 37.476 19.872 49.035 1.00 13.63	В
ATOM	5959	N VAL	12		В
ATOM	5960	H VAL	12	38.011 18.353 50.578 1.00 10.59 37.903 18.050 51.513 1.00 0.00	B B
ATOM	5961	CA VAL	12	38.826 17.566 49.663 1.00 10.59	
ATOM		CB VAL	12	40.326 17.566 49.663 1.00 10.59	В
ATOM				41.099 17.197 48.741 1.00 26.75	B B
ATOM	5964	CG2 VAL		40.683 19.104 50.247 1.00 26.75	В
ATOM	5965	C VAL	12	38.470 16.131 49.868 1.00 10.59	В
ATOM	5966	O VAL	12	38.227 15.712 51.006 1.00 26.75	В
ATOM	5967	N LYS	13	38.464 15.369 48.780 1.00 14.96	В
ATOM	5968	H LYS	13	38.684 15.768 47.912 1.00 0.00	В
ATOM	5969	CA LYS	13	38.120 13.951 48.862 1.00 14.96	В
ATOM			13	37.636 13.388 47.523 1.00 21.65	В
ATOM	5971	CG LYS	13	37.414 14.413 46.417 1.00 21.65	В
ATOM		CD LYS	13	35.989 14.361 45.822 1.00 21.65	В
ATOM		CE LYS	13	35.649 15.662 45.019 1.00 21.65	В
ATOM	5974	NZ LYS	13	36.070 15.656 43.560 1.00 21.65	В
ATOM		HZ1 LYS	13	36.750 14.873 43.413 1.00 0.00	В
ATOM		HZ2 LYS	13	36.519 16.548 43.286 1.00 0.00	В
ATOM		HZ3 LYS	13	35.239 15.474 42.963 1.00 0.00	В
ATOM	5978	C LYS	13	39.290 13.143 49.341 1.00 14.96	В
ATOM	5979		13	40.440 13.456 49.068 1.00 21.65	В
ATOM	5980		14	39.001 12.095 50.094 1.00 9.97	В
ATOM	5981	CD PRO	14	37.664 11.644 50.494 1.00 20.25	В
ATOM	5982		14	40.079 11.259 50.597 1.00 9.97	В
ATOM	5983	CB PRO	14	39.377 10.086 51.263 1.00 20.25	В
ATOM		CG PRO	14	37.964 10.458 51.376 1.00 20.25	В
ATOM		C PRO	14	40.772 10.840 49.335 1.00 9.97	В
ATOM	5986		14	40.121 10.322 48.395 1.00 20.25	В
ATOM	5987		15	42.076 11.093 49.298 1.00 22.32	В
ATOM		H GLY	15	42.519 11.519 50.044 1.00 0.00	В
ATOM		CA GLY	15	42.858 10.744 48.131 1.00 22.32	В
				10.101 1.00 22.02	-

ATOM	5990 C GLY	4.5	43.281 12.011 47.421 1.00 22.32	В
ATOM ATOM		15	44.443 12.218 47.160 1.00 16.87	В
ATOM	5991 O GLY 5992 N ALA	15 16	42.318 12.874 47.123 1.00 29.99	В
ATOM	5992 N ALA 5993 H ALA		41.394 12.662 47.377 1.00 0.00	В
	5994 CA ALA	16	42.590 14.124 46.437 1.00 29.99	В
ATOM ATOM	5994 CA ALA 5995 CB ALA	16 16	41.335 14.966 46.368 1.00 19.06	В
			43.683 14.907 47.123 1.00 29.99	В
ATOM ATOM	5996 C ALA 5997 O ALA	16 16	44.139 14.543 48.215 1.00 19.06	В
ATOM	5998 N SER	17	44.065 16.005 46.474 1.00 3.06	В
ATOM	5999 H SER	17	43.631 16.228 45.623 1.00 0.00	B
ATOM	6000 CA SER	17	45.102 16.895 46.965 1.00 3.06	В
ATOM	6001 CB SER	17	46.257 16.902 45.975 1.00 19.73	В
ATOM	6002 OG SER		47.304 16.089 46.467 1.00 19.73	B
ATOM	6003 HG SER	17	48.094 16.192 45.926 1.00 0.00	В
ATOM	6004 C SER	17	44.610 18.338 47.194 1.00 3.06	В
ATOM	6005 O SER	17	43.443 18.671 46.912 1.00 19.73	В
ATOM	6006 N VAL	18	45.498 19.187 47.717 1.00 9.91	В
ATOM	6007 H VAL	18	46.393 18.880 47.966 1.00 0.00	В
ATOM	6008 CA VAL	18	45.140 20.577 47.922 1.00 9.91	В
ATOM	6009 CB VAL	18	44.042 20.748 49.022 1.00 15.04	В
ATOM	6010 CG1 VAL		44.598 20.558 50.446 1.00 15.04	В
ATOM	6011 CG2 VAL	18	43.443 22.091 48.866 1.00 15.04	В
ATOM	6012 C VAL	18	46.317 21.502 48.199 1.00 9.91	В
ATOM	6013 O VAL	18	47.322, 21.087 48.760 1.00 15.04	В
MOTA	6014 N LYS	19	46.169 22.762 47.798 1.00 19.71	В
ATOM	6015 H LYS	19	45.317 23.033 47.406 1.00 0.00	В
ATOM	6016 CA LYS	19	47.204 23.778 47.935 1.00 19.71	В
ATOM	6017 CB LYS	19	47.765 24.111 46.542 1.00 27.16	В
ATOM	6018 CG LYS	19	48.808 25.236 46.490 1.00 27.16	В
ATOM	6019 CD LYS	19	50.173 24.735 46.031 1.00 27.16	В
ATOM	6020 CE LYS	19	50.440 25.007 44.549 1.00 27.16	В
ATOM	6021 NZ LYS	19	49.874 26.317 44.049 1.00 27.16	В
ATOM	6022 HZ1 LYS	19	48.888 26.123 43.800 1.00 0.00	В
ATOM	6023 HZ2 LYS	19	50.391 26.633 43.208 1.00 0.00	В
ATOM	6024 HZ3 LYS	19	49.912 27.041 44.802 1.00 0.00	В
ATOM	6025 C LYS	19	46.617 25.028 48.592 1.00 19.71	В
ATOM	6026 O LYS	19	45.743 25.671 48.048 1.00 27.16	В
ATOM ATOM	6027 N LEU 6028 H LEU	20 20	47.123 25.349 49.767 1.00 9.79 47.850 24.820 50.147 1.00 0.00	В
ATOM	6029 CA LEU	20	47.850 24.820 50.147 1.00 0.00 46.632 26.459 50.509 1.00 9.79	B B
ATOM	6030 CB LEU	20	46.607 26.146 52.004 1.00 23.74	В
ATOM	6031 CG LEU	20	45.731 25.098 52.616 1.00 23.74	В
ATOM	6032 CD1 LEU	20	44.912 24.350 51.587 1.00 23.74	В
ATOM	6033 CD2 LEU	20	46.657 24.204 53.328 1.00 23.74	В
ATOM	6034 C LEU	20	47.563 27.616 50.358 1.00 9.79	в
ATOM	6035 O LEU	20	48.767 27.429 50.430 1.00 23.74	В
ATOM	6036 N SER	21	47.018 28.823 50.243 1.00 10.03	В
ATOM	6037 H SER	21	46.050 28.954 50.218 1.00 0.00	В
ATOM	6038 CA SER	21	47.872 29.962 50.142 1.00 10.03	В
ATOM	6039 CB SER	21	47.427 30.798 48.946 1.00 10.56	В
ATOM	6040 OG SER	21	46.449 31.758 49.306 1.00 10.56	В
ATOM	6041 HG SER	21	46.446 32.495 48.700 1.00 0.00	В
ATOM	6042 C SER	21	47.890 30.788 51.449 1.00 10.03	В
ATOM	6043 O SER	21	46.954 30.722 52.263 1.00 10.56	В
ATOM	6044 N CYS	22	48.972 31.556 51.613 1.00 11.79	В
ATOM	6045 H CYS	22	49.664 31.532 50.911 1.00 0.00	В

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ATOM	6046	CA CY	S 22	49.207 32.424 52.739 1.00 11.79	В
ATOM				49.902 33.681 52.210 1.00 11.79	В
ATOM				51.112 33.681 51.975 1.00 12.77	В
ATOM					
		CB CY			В
ATOM		SG CY			В
ATOM				49.121 34.757 52.063 1.00 10.10	В
ATOM		H LYS		48.178 34.672 52.302 1.00 0.00	В
ATOM		CA LY		49.590 36.046 51.569 1.00 10.10	В
ATOM		CB LY		48.465 36.766 50.857 1.00 15.28	В
ATOM		CG LY		48.937 37.819 49.918 1.00 15.28	В
ATOM		CD LY		48.224 39.140 50.105 1.00 15.28	В
ATOM		CE LYS		48.959 40.238 49.320 1.00 15.28	В
ATOM	6058	NZ LYS	3 23	50.300 39.773 48.763 1.00 15.28	В
MOTA	6059	HZ1 LY	S 23	50.154 38.965 48.126 1.00 0.00	В
ATOM	6060	HZ2 LY	S 23	50.924 39.490 49.539 1.00 0.00	В
ATOM	6061	HZ3 LY	S 23		В
ATOM	6062	C LYS		50.159 36.936 52.638 1.00 10.10	В
ATOM	6063			49.508 37.244 53.624 1.00 15.28	В
ATOM	6064			51.387 37.365 52.393 1.00 2.00	В
ATOM	6065			51.805 37.109 51.558 1.00 0.00	В
ATOM		CA ALA		52.150 38.206 53.310 1.00 2.00	В
ATOM		CB ALA		53.612 37.699 53.389 1.00 6.12	В
ATOM	6068			52.144 39.707 53.000 1.00 2.00	В
ATOM	6069			51.982 40.123 51.858 1.00 6.12	В
ATOM	6070			52.328 40.511 54.050 1.00 36.07	
ATOM	6071			52.443 40.113 54.943 1.00 0.00	В
ATOM		CA SE			В
ATOM		CB SER		52.393 41.966 53.913 1.00 36.07 51.056 42.502 53.448 1.00 16.99	В
ATOM		OG SE			В
ATOM	6075				В
ATOM				49.390 42.581 54.402 1.00 0.00	В
	6076			52.857 42.774 55.142 1.00 36.07	В
MOTA MOTA	6077			52.661 42.373 56.293 1.00 16.99	В
	6078			53.482 43.916 54.876 1.00 2.00	В
MOTA	6079			53.643 44.195 53.941 1.00 0.00	В
ATOM		CA GLY		53.945 44.774 55.942 1.00 2.00	В
ATOM	6081	C GLY		55.362 44.543 56.435 1.00 2.00	В
MOTA	6082			55.825 45.194 57.388 1.00 12.86	В
MOTA	6083		27	56.045 43.593 55.812 1.00 16.76	В
MOTA	6084	H TYR	27	55.625 43.082 55.094 1.00 0.00	В
MOTA		CA TYP		57.395 43.320 56.184 1.00 16.76	В
MOTA		CB TYP		57.418 42.307 57.317 1.00 3.12	В
ATOM		CG TYF		57.132 40.925 56.933 1.00 3.12	В
ATOM		CD1 TY			В
ATOM		CE1 TY		55.586 39.033 56.753 1.00 3.12	В
MOTA		CD2 TY		58.148 40.082 56.574 1.00 3.12	В
MOTA		CE2 TY		57.923 38.735 56.311 1.00 3.12	В
ATOM		CZ TYR		56.633 38.207 56.403 1.00 3.12	В
MOTA		OH TYF		56.423 36.866 56.112 1.00 3.12	В
ATOM		HH TYF		56.884 36.313 56.758 1.00 0.00	В
MOTA	6095		27	58.081 42.836 54.909 1.00 16.76	В
MOTA	6096		27	57.425 42.764 53.879 1.00 3.12	В
ATOM	6097		28	59.394 42.570 54.937 1.00 8.17	3
MOTA	6098		28	59.886 42.684 55.771 1.00 0.00 E	3
ATOM		CA ILE	28	60.096 42.111 53.757 1.00 8.17	В
ATOM		CB ILE	28	61.638 42.239 53.867 1.00 12.53	В
ATOM	6101	CG2 ILE	28	62.270 41.555 52.690 1.00 12.53	В

ATOM	6102	CG1 ILE	28	62.108 43.696 54.041 1.00 12.53	В
ATOM		CD1 ILE	28	61.253 44.754 53.464 1.00 12.53	В
					в
ATOM	6104		28		
ATOM	6105	O ILE	28		B_
ATOM	6106	N PHE	29	58.971 40.238 52.815 1.00 12.13	В
ATOM	6107	H PHE	29	58,579 40,882 52,193 1,00 0,00	В
ATOM		CA PHE	29	58.660 38.842 52.698 1.00 12.13	В
		CB PHE	29	58.034 38.557 51.345 1.00 30.04	В
MOTA					
ATOM		CG PHE	29	57.327 37.247 51.292 1.00 30.04	В
MOTA:	6111		29	56.605 36.797 52.382 1.00 30.04	В
ATOM	6112	CD2 PHE	29	57.403 36.432 50.170 1.00 30.04	В
ATOM	6113	CE1 PHE	29	55.975 35.562 52.364 1.00 30.04	В
ATOM		CE2 PHE	29	56.758 35.168 50.150 1.00 30.04	В
ATOM		CZ PHE	29	56.049 34.742 51.246 1.00 30.04	В
ATOM	6116		29	59.904 37.952 52.883 1.00 12.13	В
MOTA	6117	O PHE	29	59.905 37.053 53.727 1.00 30.04	В
ATOM	6118	N THR	30	60.961 38.208 52.114 1.00 24.64	В
ATOM	6119	H THR	30	60.919 38.968 51.492 1.00 0.00	В
ATOM		CA THR	30	62.154 37.381 52.192 1.00 24.64	В
ATOM	6121	CB THR	30	63.069 37.558 50.955 1.00 12.46	В
ATOM		OG1 THR			В
MOTA		HG1 THR	30	63.747 39.187 51.868 1.00 0.00	В
ATOM	6124	CG2 THR	30	62.306 37.355 49.704 1.00 12.46	В
MOTA	6125	C THR	30	62.985 37.601 53.443 1.00 24.64	В
ATOM	6126	O THR	30	64.001 36.924 53.645 1.00 12.46	В
ATOM	6127		31	62.574 38.520 54.304 1.00 12.68	В
ATOM	6128		31	61.766 39.042 54.125 1.00 0.00	В
ATOM		CA SER	31	63.381 38.705 55.507 1.00 12.68	В
ATOM	6130	CB SER	31	63.300 40.139 55.994 1.00 7.18	В
ATOM	6131	OG SER	31	63.920 40.993 55.079 1.00 7.18	В
ATOM	6132	HG SER	31	64.540 40.481 54.562 1.00 0.00	В
ATOM	6133	C SER	31	63.036 37.771 56.665 1.00 12.68	В
ATOM	6134		31	63.702 37.854 57.689 1.00 7.18	В
		N TYR	32	62.018 36.904 56.495 1.00 13.18	В
ATOM					
ATOM		H TYR	32	61.555 36.909 55.627 1.00 0.00	В
ATOM		CA TYR	32	61.554 35.953 57.517 1.00 13.18	В
ATOM	6138	CB TYR	32	60.291 36.474 58.187 1.00 20.80	В
ATOM	6139	CG TYR	32	60.511 37.733 58.966 1.00 20.80	В
ATOM	6140	CD1 TYR	32	60.641 37.721 60.364 1.00 20.80	В
ATOM	6141	CE1 TYR	32	60.918 38.879 61.066 1.00 20.80	В
ATOM		CD2 TYR	32	60.658 38.935 58.318 1.00 20.80	В
		CE2 TYR	32		-
ATOM				60.933 40.092 59.002 1.00 20.80	В
MOTA		CZ TYR	32	61.067 40.069 60.360 1.00 20.80	В
ATOM		OH TYR	32	61.402 41.248 60.996 1.00 20.80	В
ATOM	6146	HH TYR	32	60.680 41.525 61.566 1.00 0.00	В
ATOM	6147	C TYR	32	61.227 34.571 56.960 1.00 13.18	В
ATOM	6148		32	60.899 34.439 55.798 1.00 20.80	В
ATOM	6149		33	61.308 33.533 57.782 1.00 10.90	В
ATOM	6150		33	61.615 33.674 58.703 1.00 0.00	
					В
ATOM		CA TYR	33	60.936 32.206 57.298 1.00 10.90	В
ATOM		CB TYR	33	61.644 31.090 58.064 1.00 39.83	В
ATOM		CG TYR	33	63.049 30.801 57.603 1.00 39.83	В
ATOM		CD1 TYR	33	63.993 31.825 57.506 1.00 39.83	В
ATOM	6155	CE1 TYR	33	65.296 31.569 57.100 1.00 39.83	В
ATOM		CD2 TYR	33	63.451 29.507 57.281 1.00 39.83	В
ATOM		CE2 TYR	33	64.763 29.244 56.871 1.00 39.83	В
AT OW	0.07	JEE 1 110	55	07.700 Z3.244 30.071 1.00 33.03	D

6158	CZ TYP	33	65 675 30 290 56 783 1 00 30 83	В
				В
				В
				В
				В
				В
				В
				В
				В
				В
				В
			54.661 33.998 55.593 1.00 17.41	B
6170	C MET	34	57.233 29.774 57.494 1.00 27.75	В
6171	O MET	34	57.774 28.782 57.007 1.00 17.41	В
6172	N TYR	35	56.538 29.732 58.626 1.00 4.05	В
6173	H TYR	35	56.158 30.569 58.952 1.00 0.00	В
6174	CA TYR	35	56.328 28.498 59.363 1.00 4.05	В
			56.311 28.759 60.840 1.00 17.34	В
				В
				В
				В
				В
				В
				В
		-		В
				B B
				В
				В
6187	H TRP	36		В
		36	53.423 26.139 58.748 1.00 24.26	В
		36	53.420 25.311 57.481 1.00 24.82	В
		36		В
				В
				В
			<u></u>	В
				В
				В
				В
				B B
				В
				В
				В
6202		37		В
		37		В
		37	51.235 24.809 61.546 1.00 17.00	В
		37	51.213 25.705 62.784 1.00 24.34	В
			50.482 25.019 63.901 1.00 24.34	В
			52.611 26.043 63.205 1.00 24.34	В
				В
				В
				В
			48 464 22 202 64 227 4 02 07 27	В
			48 792 20 758 64 429 4 00 7 00	В
	□ = □	-	70.132 20.136 01.429 1.00 7.99	В
	6159 6160 6161 6161 6163 6164 6165 6166 6167 6170 6171 6172 6173 6174 6175 6180 6181 6182 6183 6184 6185 6186 6187 6188 6189 6191 6192 6201 6202 6203 6204 6205 6207 6201 6211 6212	6159 OH TYPE 6160 HH TYPE 6161 C TYPE 6161 C TYPE 6161 C TYPE 6162 O TYPE 6163 N MET 6164 H MET 6165 CB MET 6166 CB MET 6166 CB MET 6167 CG MET 6170 C MET 6171 O MET 6171 O MET 6172 N TYPE 6173 H TYPE 6174 CA TYPE 6175 CB TYPE 6176 CG TYPE 6177 CD1 TYPE 6178 CE1 TYPE 6179 CD2 TYPE 6180 CE2 TYPE 6181 CZ TYPE 6181 CZ TYPE 6181 CZ TYPE 6182 OH TYPE 6183 HH TYPE 6184 C TYPE 6185 O TYPE 6186 N TRP 6187 H TRP 6188 CA TRP 6189 CB TRP 6190 CG TRP 6191 CD2 TRP 6191 CD2 TRP 6192 CE2 TRP 6193 CE3 TRP 6194 CD1 TRP 6195 NE1 TRP 6196 HE1 TRP 6197 CZ2 TRP 6198 CZ3 TRP 6199 CH2 TRP 6190 C TRP 6201 O TRP 6201 O TRP 6202 N VAL 6204 CA VAL 6205 CB VAL 6206 CG1 VAL 6207 CG2 VAL 6207 C VAL 6208 C VAL 6208 C VAL 6209 O LYS 6211 H LYS 6212 CA	6159 OH TYR 33 6160 HH TYR 33 6160 HH TYR 33 6161 C TYR 33 6161 C TYR 33 6162 O TYR 34 6163 N MET 34 6165 CA MET 34 6166 CB MET 34 6167 CG MET 34 6168 SD MET 34 6169 CE MET 34 6170 C MET 34 6171 O MET 34 6171 O MET 35 6172 N TYR 35 6173 H TYR 35 6174 CA TYR 35 6175 CB TYR 35 6176 CG TYR 35 6176 CG TYR 35 6177 CD1 TYR 35 6178 CE1 TYR 35 6178 CE1 TYR 35 6180 CE2 TYR 35 6181 CZ TYR 35 6182 OH TYR 35 6185 O TYR 35 6186 N TRP 36 6187 H TRP 36 6187 H TRP 36 6189 CB TRP 36 6189 CB TRP 36 6190 CG TRP 36 6191 CD2 TRP 36 6191 CD2 TRP 36 6192 CE2 TRP 36 6193 CE3 TRP 36 6194 CD1 TRP 36 6195 NE1 TRP 36 6196 HE1 TRP 36 6197 CZ2 TRP 36 6197 CZ2 TRP 36 6197 CZ2 TRP 36 6197 CZ2 TRP 36 6197 CZ2 TRP 36 6197 CZ2 TRP 36 6197 CZ2 TRP 36 6197 CZ2 TRP 36 6190 CH TRP 36 6190 CH TRP 36 6191 CD2 TRP 36 6191 CD2 TRP 36 6192 CE2 TRP 36 6194 CD1 TRP 36 6195 NE1 TRP 36 6196 HE1 TRP 36 6197 CZ2 TRP 36 6197 CZ2 TRP 36 6197 CZ2 TRP 36 6190 CH TRP 36 6190 CH TRP 36 6190 CH TRP 36 6191 CD2 TRP 36 6190 CH TRP 36	6159 OH TYR 33 66.964 30.090 56.360 1.00 39.83 6160 HH TYR 33 67.505 30.849 56.590 1.00 0.00 6161 C TYR 33 59.451 32.031 57.535 1.00 10.99 6163 N MET 34 58.764 31.381 56.604 1.00 27.75 6164 H MET 34 59.205 31.090 55.783 1.00 0.00 6165 CA MET 34 59.205 31.095 55.783 1.00 0.00 6166 CB MET 34 59.205 31.102 55.482 1.00 17.41 6167 CG MET 34 55.110 31.243 55.665 1.00 17.41 6168 SD MET 34 55.110 31.243 55.665 1.00 17.41 6167 CG MET 34 55.7350 31.135 56.810 1.00 27.75 6168 CE MET 34 54.661 33.998 55.593 1.00 17.41 6170 C MET 34 57.233 29.774 57.494 1.00 27.75 6173 H TYR 35 56.358 29.732 58.626 1.00 17.41 6177 CD TYR 35 56.358 29.732 58.626 1.00 17.41 6178 CE TYR 35 56.358 29.732 58.626 1.00 4.05 6179 CD TYR 35 56.358 29.732 58.626 1.00 17.34 6180 CE TYR 35 56.358 29.732 58.626 1.00 17.34 6181 CZ TYR 35 56.358 29.732 58.626 1.00 17.34 6181 CZ TYR 35 56.340 28.499 61.497 1.00 17.34 6182 OH TYR 35 61.097 27.694 64.246 1.00 0.00 6184 C TYR 35 61.097 27.694 64.246 1.00 0.00 6185 O TYR 35 61.097 27.694 64.246 1.00 0.00 6186 CB TRP 36 61.997 27.694 64.246 1.00 0.00 6186 CB TRP 36 61.997 27.694 64.246 1.00 0.00 6186 CB TRP 36 61.997 27.694 64.246 1.00 0.00 6188 CA TRP 36 61.997 27.694 64.246 1.00 0.00 6188 CA TRP 36 61.997 27.694 64.246 1.00 0.00 6190 CG TRP 36 61.997 27.694 64.246 1.00 0.00 6190 CG TRP 36 61.997 27.694 64.246 1.00 0.00 6190 CG TRP 36 61.997 27.694 64.246 1.00 0.00 6190 CG TRP 36 61.997 27.694 64.246 1.00 0.00 6190 CG TRP 36 61.997 27.694 64.246 1.00 0.00 6190 CG TRP 36 61.997 27.694 64.246 1.00 0.00 6190 CG TRP 36 61.997 27.694 64.246 1.00 0.00 6190 CG TRP 36 61.997 27.694 64.246 1.00 0.00 6190 CG TRP 36 61.997 27.694 64.246 1.00 0.00 6190 CG TRP 36 61.997 27.694 64.246 1.00 0.00 6190 CG TRP 36 61.997 27.694 64.246 1.00 0.00 6190 CG TRP 36 61.997 27.694 64.246 1.00 0.00 6190 CG TRP 36 61.997 1.00 0.00 6190 CG TRP 36 61.997 1.00 0.00 6190 CG TRP 3

ATOM	6214	CG	LYS	38	47,884 19,679 61,982 1,00 7,99	В
ATOM	6215		LYS	38	47.678 18.619 60.922 1.00 7.99	В
ATOM	6216		LYS	38	46.990 17.365 61.455 1.00 7.99	В
ATOM	6217		LYS	38	46.664 16.496 60.344 1.00 7.99	В
ATOM	6218		1 LYS	38	45.771 16.827 59.927 1.00 0.00	В
ATOM			2 LYS	38	46.593 15.492 60.606 1.00 0.00	В
ATOM			3 LYS	38	47.410 16.630 59.632 1.00 0.00	В
ATOM	6221		LYS	38	47.773 22.213 63.234 1.00 27.82	В
ATOM	6222		LYS	38	48.452 22.177 64.276 1.00 7.99	В
ATOM	6223		GLN	39	46.442 22.303 63.254 1.00 13.93	В
ATOM	6224		GLN	39	45.967 22.412 62.396 1.00 0.00	В
ATOM			GLN	39	45.672 22.267 64.504 1.00 13.93	В
ATOM			GLN	39	45.330 23.657 65.023 1.00 23.94	В
ATOM			GLN	39	44.852 23.675 66.489 1.00 23.94	В
ATOM			GLN	39	44.600 25.119 67.041 1.00 23.94	В
ATOM			1 GLN	39	44.128 26.031 66.327 1.00 23.94	В
ATOM			2 GLN		44.927 25.315 68.319 1.00 23.94	В
ATOM			1 GLN		45.117 26.229 68.623 1.00 0.00	В
ATOM			22 GLN		44.968 24.533 68.918 1.00 0.00	В
ATOM	6233		GLN	39	44.388 21.493 64.297 1.00 13.93	В
ATOM	6234	0	GLN	39	43.380 22.016 63.794 1.00 23.94	В
MOTA	6235	Ν	ALA	40	44.435 20.228 64.692 1.00 30.38	В
ATOM	6236	Н	ALA	40	45.261 19.871 65.078 1.00 0.00	В
MOTA	6237	CA	ALA	40	43.270 19.355 64.587 1.00 30.38	В
MOTA	6238	CB	ALA	40	43.671 17.908 64.171 1.00 12.18	В
MOTA	6239		ALA	40	42.569 19.322 65.931 1.00 30.38	В
ATOM	6240	0	ALA	40	43.220 19.472 66.981 1.00 12.18	В
ATOM	6241	Ν	PRO	41	41.239 19.080 65.905 1.00 25.70	В
ATOM			PRO	41	40.562 18.728 64.651 1.00 29.72	В
ATOM	6243			41	40.287 18.991 67.022 1.00 25.70	В
ATOM			PRO	41	39.402 17.804 66.641 1.00 29.72	В
ATOM			PRO	41	39.642 17.617 65.117 1.00 29.72	В
MOTA	6246		PRO	41	41.011 18.739 68.324 1.00 25.70	В
MOTA	6247		PRO	41	41.900 17.865 68.373 1.00 29.72	В
MOTA	6248		GLY	42	40.667 19.492 69.361 1.00 19.38	В
MOTA			GLY	42		B_
MOTA			GLY	42	41.331 19.274 70.625 1.00 19.38	В
MOTA	6251		GLY	42	42.718 18.616 70.514 1.00 19.38	В
MOTA MOTA	6252 6253		GLY GLN	42	43.036 17.557 71.134 1.00 25.17	В
ATOM	6254		GLN	43 43	43.547 19.207 69.669 1.00 25.41 43.249 19.972 69.138 1.00 0.00	В
ATOM	6255			43		В
ATOM	6256			43	44.903 18.726 69.555 1.00 25.41 45.160 18.114 68.167 1.00 39.91	В
ATOM	6257			43	45.160 18.114 68.167 1.00 39.91 46.612 18.282 67.631 1.00 39.91	В
ATOM	6258			43	47.606 17.291 68.263 1.00 39.91	B B
ATOM	6259	OF.	1 GLN	43	47.692 16.119 67.851 1.00 39.91	В
ATOM	6260			43	48.373 17.764 69.253 1.00 39.91	В
ATOM			1 GLN		48.570 17.190 70.010 1.00 0.00	В
ATOM			2 GLN		48.712 18.688 69.164 1.00 0.00	В
ATOM	6263		GLN	43	45.756 19.993 69.776 1.00 25.41	в
ATOM	6264		GLN	43	45.248 21.137 69.740 1.00 39.91	В
ATOM			GLY	44	47.038 19.780 70.039 1.00 41.21	В
MOTA			GLY	44		В
ATOM	6267			44	47.928 20.903 70.207 1.00 41.21	В
ATOM			GLY	44	48.180 21.534 68.858 1.00 41.21	В
MOTA	6269	0	GLY	44	47.278 21.695 68.030 1.00 27.23	В

ATOM 6270 N LEU 45 ATOM 6271 H LEU 45 ATOM 6272 CA LEU 45 ATOM 6273 CB LEU 45 ATOM 6274 CG LEU 45 ATOM 6275 CD1 LEU 45 ATOM 6276 CD2 LEU 45 ATOM 6277 C LEU 45 ATOM 6278 O LEU 45 ATOM 6279 N GLU 46	48.912 25.480 69.158 1.00 34.34 51.020 21.772 66.843 1.00 23.21 52.140 21.989 67.294 1.00 34.34 50.820 20.881 65.883 1.00 21.92	B B B B
ATOM 6280 H GLU 46 ATOM 6281 CA GLU 46 ATOM 6282 CB GLU 46 ATOM 6283 CG GLU 46 ATOM 6284 CD GLU 46 ATOM 6285 OE1 GLU 46 ATOM 6286 OE2 GLU 46 ATOM 6287 C GLU 46 ATOM 6288 O GLU 46		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
ATOM 6289 N TRP 47 ATOM 6290 H TRP 47 ATOM 6291 CA TRP 47 ATOM 6292 CB TRP 47 ATOM 6293 CG TRP 47 ATOM 6294 CD2 TRP 47 ATOM 6295 CE2 TRP 47 ATOM 6296 CE3 TRP 47 ATOM 6297 CD1 TRP 47	53.941 21.388 64.473 1.00 13.78 54.435 20.935 65.176 1.00 0.00 54.664 22.275 63.549 1.00 13.78 55.980 22.760 64.161 1.00 24.38 56.864 23.367 63.180 1.00 24.38 57.917 22.721 62.463 1.00 24.38 58.532 23.703 61.652 1.00 24.38 58.407 21.404 62.423 1.00 24.38	B B B B B B B B B B
ATOM 6298 NE1 TRP 47 ATOM 6299 HE1 TRP 47 ATOM 6300 CZ2 TRP 47 ATOM 6301 CZ3 TRP 47 ATOM 6302 CH2 TRP 47 ATOM 6303 C TRP 47 ATOM 6304 O TRP 47 ATOM 6305 N ILE 48	56.875 24.656 62.790 1.00 24.38 57.869 24.879 61.875 1.00 24.38 58.074 25.728 61.443 1.00 0.00 59.623 23.410 60.802 1.00 24.38 59.483 21.115 61.578 1.00 24.38 60.079 22.110 60.782 1.00 24.38 54.952 21.408 62.341 1.00 13.78 55.541 20.342 62.471 1.00 24.38 54.514 21.860 61.175 1.00 20.10	8 8 8 8 8 8 8 8 8
ATOM 6306 H ILE 48 ATOM 6307 CA ILE 48 ATOM 6308 CB ILE 48 ATOM 6309 CG2 ILE 48 ATOM 6310 CG1 ILE 48 ATOM 6311 CD1 ILE 48 ATOM 6312 C ILE 48 ATOM 6313 O ILE 48 ATOM 6314 N GLY 49	54.061 22.725 61.134 1.00 0.00 54.701 21.112 59.948 1.00 20.10 53.752 21.580 58.897 1.00 13.68 54.142 20.971 57.551 1.00 13.68 52.339 21.209 59.272 1.00 13.68 51.341 21.836 58.320 1.00 13.68 56.114 21.244 59.345 1.00 20.10 56.870 20.258 59.234 1.00 13.68	B B B B B B B B
ATOM 6314 N GLY 49 ATOM 6315 H GLY 49 ATOM 6316 CA GLY 49 ATOM 6317 C GLY 49 ATOM 6318 O GLY 49 ATOM 6319 N GLU 50 ATOM 6320 H GLU 50 ATOM 6321 CA GLU 50 ATOM 6322 CB GLU 50 ATOM 6323 CG GLU 50	56.437 22.467 58.927 1.00 28.68 55.790 23.199 59.023 1.00 0.00 57.719 22.723 58.331 1.00 28.68 57.916 24.204 58.180 1.00 28.68 57.119 25.018 58.697 1.00 4.08 59.010 24.525 57.486 1.00 29.75 59.572 23.804 57.155 1.00 0.00 59.418 25.891 57.189 1.00 29.75 60.515 26.351 58.131 1.00 9.52 61.704 25.467 58.055 1.00 9.52	B B B B B B B B B
ATOM 6324 CD GLU 50 ATOM 6325 OE1 GLU 50	62.784 25.826 59.060 1.00 9.52 62.779 26.941 59.610 1.00 9.52	B B

ATOM	6326	OF	2 GLL	50	63.661 24.975 59.309 1.00 9.52	В
ATOM	6327		GLU	50	59.958 25.979 55.774 1.00 29.75	В
ATOM	6328	_	GLU	50	60.350 24.980 55.160 1.00 9.52	В
ATOM	6329			51 ·		В
ATOM	6330			51		3
				51		
ATOM	6331		ILE		60.443 27.553 53.968 1.00 23.36	В
ATOM	6332			51		В
ATOM			2 ILE	51	58.686 29.170 53.167 1.00 5.75	В
ATOM			1 ILE	51	60.043 27.877 51.557 1.00 5.75	В
ATOM			1 ILE	51	59.136 27.381 50.434 1.00 5.75	В
ATOM	6336			51		В
ATOM	6337			51		3
ATOM	6338		ASN	52	62.242 29.064 53.578 1.00 18.14	В
ATOM	6339		ASN	52	62.577 28.382 52.953 1.00 0.00	В
ATOM			ASN	52	63.004 30.292 53.719 1.00 18.14	В
MOTA			ASN	52	64.489 30.027 53.715 1.00 26.63	В
ATOM	6342	CG	ASN	52	65.258 31.289 53.699 1.00 26.63	В
MOTA	6343	OD	1 ASN	52	64.776 32.325 53.200 1.00 26.63	В
MOTA	6344	ND	2 ASN	52	66.459 31.243 54.252 1.00 26.63	В
MOTA	6345	HD:	21 ASN	1 52	66.719 31.972 54.849 1.00 0.00	В
ATOM	6346	HD:	22 ASN	1 52	67.052 30.487 54.049 1.00 0.00	В
ATOM	6347	С	ASN	52	62.592 31.059 52.467 1.00 18.14	В
ATOM	6348	0	ASN	52	63.093 30.864 51.375 1.00 26.63	В
ATOM	6349	Ν	PRO	53	61.671 31.980 52.640 1.00 21.90	В
ATOM	6350	CD	PRO	53	61.081 32.385 53.932 1.00 14.37	В
ATOM	6351	CA	PRO	53	61.172 32.756 51.510 1.00 21.90	В
ATOM			PRO	53	60.373 33.860 52.190 1.00 14.37	В
ATOM			PRO	53	59.938 33.197 53.523 1.00 14.37	В
ATOM	6354		PRO	53	62.148 33.277 50.454 1.00 21.90	В
ATOM	6355	_	PRO	53	61.772 33.466 49.298 1.00 14.37	В
ATOM	6356		SER	54	63.398 33.500 50.813 1.00 31.61	В
ATOM	6357		SER	54		В
	6358			54	64.306 34.067 49.814 1.00 31.61	В
ATOM	-		SER	54	65.306 34.994 50.490 1.00 33.54	В
ATOM			SER	54	66.308 34.189 51.112 1.00 33.54	В
ATOM	6361		SER	54	67.093 34.719 51.259 1.00 0.00	В
ATOM	6362		SER	54	65.111 33.008 49.112 1.00 31.61	В
ATOM		Ö	SER	54	65.708 33.240 48.072 1.00 33.54	В
ATOM	6364		ASN	55	65.105 31.854 49.740 1.00 30.07	В
ATOM	6365		ASN	55		В
ATOM			ASN	55	65.860 30.677 49.383 1.00 30.07	
ATOM			ASN	55	66.232 30.058 50.724 1.00 22.32	В
ATOM			ASN	55		В
ATOM			1 ASN	55		В
ATOM			2 ASN	55 55	68.248 29.306 51.632 1.00 22.32	В
ATOM					67.600 28.476 49.630 1.00 22.32	В
ATOM			21 ASN 22 ASN		67.130 28.677 48.802 1.00 0.00	В
ATOM					68.210 27.707 49.745 1.00 0.00	B
	6373		ASN	55	65.063 29.651 48.570 1.00 30.07	В
MOTA MOTA	6374 6375		ASN	55 56	65.323 29.378 47.398 1.00 22.32	В
ATOM	6376		GLY	56 56	64.086 29.074 49.261 1.00 11.90	В
ATOM	6377		GLY	56		B_
ATOM	6378			56	63.250 28.034 48.719 1.00 11.90	В
ATOM	6379		GLY	56	63.681 26.985 49.685 1.00 11.90	В
ATOM			GLY	56 57	63.180 25.861 49.693 1.00 14.15	В
	6380		ASP	57	64.672 27.364 50.498 1.00 25.11	В
ATOM	6381	Н	ASP	57	65.105 28.233 50.439 1.00 0.00	В

ATOM	6292		A ASP	57	65.178 26.468 51.530 1.00 25.11	В
ATOM			3 ASP	57 57	65.996 27.232 52.592 1.00 50.08	В
					67.500 26.891 52.550 1.00 50.08	
ATOM			3 ASP	57		В
ATOM			D1 ASF		68.242 27.379 53.445 1.00 50.08	E
ATOM			D2 ASP		67.929 26.150 51.621 1.00 50.08	_ B
ATOM	6387		ASP	57	63.936 25.852 52.160 1.00 25.11	В
ATOM	6388		ASP	57	62.837 26.405 52.116 1.00 50.08	В
ATOM	6389		THR	58	64.116 24.705 52.768 1.00 23.81	В
ATOM	6390		THR	58	65.017 24.319 52.840 1.00 0.00	В
ATOM	6391		THR	58	62.987 24.031 53.301 1.00 23.81	В
ATOM			3 THR	58	62.263 23.352 52.163 1.00 6.84	В
MOTA	6393	00	31 THR		61.030 24.020 51.921 1.00 6.84	В
ATOM			31 THR		60.519 23.534 51.269 1.00 0.00	В
ATOM			32 THR	58	62.038 21.929 52.458 1.00 6.84	В
MOTA	6396	С	THR	58	63.334 23.009 54.335 1.00 23.81	В
ATOM	6397	0	THR	58	64.174 22.145 54.116 1.00 6.84	В
ATOM	6398	N	ASN	59	62.683 23.111 55.482 1.00 39.84	В
ATOM	6399	Н	ASN	59	62.066 23.860 55.635 1.00 0.00	В
MOTA	6400	CA	ASN	59	62.889 22.115 56.508 1.00 39.84	В
ATOM	6401	CE	3 ASN	59	63.611 22.702 57.700 1.00 27.13	В
ATOM	6402	CC	ASN 6	59	65.024 22.198 57.795 1.00 27.13	В
ATOM	6403	O	D1 ASN	59	65.677 21.965 56.769 1.00 27,13	В
ATOM	6404	NE	2 ASN	59	65.512 22.010 59.018 1.00 27.13	В
ATOM	6405	HD	21 ASN	1 59	65.153 21.276 59.550 1.00 0.00	В
ATOM	6406	HD.	22 ASN	59	66.212 22.625 59.326 1.00 0.00	В
ATOM	6407	С	ASN	59	61.523 21.551 56.864 1.00 39.84	В
ATOM	6408	0	ASN	59	60.509 22.215 56.669 1.00 27.13	В
ATOM	6409	Ν	PHE	60	61.494 20.324 57.372 1.00 21.62	В
ATOM	6410	Н	PHE	60		В
ATOM	6411	CA	PHE	60	60.228 19.662 57.675 1.00 21.62	В
ATOM			PHE	60	59.850 18.747 56.556 1.00 21.15	В
ATOM			PHE	60	59.160 19.418 55.471 1.00 21.15	В
ATOM	6414	CD	1 PHE	60	59.707 19.442 54.205 1.00 21.15	В
MOTA	6415	CD	2 PHE	60	57.924 20.005 55.699 1.00 21.15	В
MOTA	6416	CE	1 PHE	60	59.018 20.048 53.170 1.00 21.15	В
ATOM	6417	CE	2 PHE	60	57.232 20.605 54.678 1.00 21.15	В
ATOM	6418	CZ	PHE	60	57.770 20.633 53.411 1.00 21.15	В
ATOM	6419		PHE	60	60.187 18.818 58.884 1.00 21.62	В
MOTA	6420	0	PHE	60	61.163 18.208 59.278 1.00 21.15	В
ATOM	6421	Ν	ASN	61	59.028 18.762 59.480 1.00 21.15	В
ATOM	6422	Н	ASN	61	FO 000 10 000 00 100 100 100 100	В
ATOM	6423	CA	ASN	61	58.893 17.903 60.606 1.00 21.15	В
MOTA			ASN	61	57.609 18.187 61.351 1.00 35.07	В
ATOM			ASN	61	57.444 17.291 62.527 1.00 35.07	В
MOTA	6426	OD	1 ASN	61	57.777 16.126 62.452 1.00 35.07	В
ATOM	6427	ND	2 ASN	61	56.935 17.823 63.627 1.00 35.07	В
MOTA	6428	HD	21 ASN	61	56.241 17.314 64.099 1.00 0.00	В
ATOM	6429	HD:	22 ASN	61	57.266 18.701 63.917 1.00 0.00	В
ATOM	6430	С	ASN	61	50 maa	В
ATOM	6431	0	ASN	61	57.904 16.500 58.940 1.00 35.07	В
MOTA	6432	Ν	GLU	62		В
ATOM	6433	Н	GLU	62	00 0 10 10 500 500	В
ATOM			GLU	62	59.606 14.410 59.374 1.00 39.28	В
ATOM			GLU	62	60.631 13.428 59.969 1.00 51.78	В
ATOM			GLU	62	62.113 13.880 59.863 1.00 51.78	В
ATOM	6437	CD	GLU	62	62.618 14.046 58.416 1.00 51.78	В

ATOM	6438 OE1 GLU 6	2 62.566 13.066 57.631 1.00 51.78 B
ATOM	6439 OE2 GLU 6	
ATOM	6440 C GLU 62	58.190 13.787 59.347 1.00 39.28 B
ATOM	6441 O GLU 62	57.874 13.017 58.431 1.00 51.78 B
ATOM	6442 N LYS 63	57.329 14.113 60.324 1.00 21.82 B
ATOM		57.591 14.728 61.037 1.00 0.00 B
ATOM	6444 CA LYS 63	
ATOM	6445 CB LYS 63	55.282 13.742 61.635 1.00 21.97 B 54.136 12.718 61.847 1.00 21.97 B
ATOM	6446 CG LYS 63	
ATOM	6447 CD LYS 63	
ATOM	6448 CE LYS 63	51.664 13.299 61.411 1.00 21.97 B
ATOM	6449 NZ LYS 63	50.439 14.074 61.869 1.00 21.97 B
ATOM	6450 HZ1 LYS 63	
ATOM	6451 HZ2 LYS 63	-
ATOM	6452 HZ3 LYS 63	· –
ATOM	6453 C LYS 63	55.126 14.114 59.140 1.00 21.82 B
ATOM	6454 O LYS 63	54.040 13.630 58.889 1.00 21.97 B
ATOM	6455 N PHE 64	55.623 15.111 58.412 1.00 28.41 B
ATOM	6456 H PHE 64	56.498 15.466 58.641 1.00 0.00 B
ATOM	6457 CA PHE 64	
ATOM	6458 CB PHE 64	
ATOM	6459 CG PHE 64	
MOTA	6460 CD1 PHE 64	· · · · · · · · · · · · · · · · · · ·
MOTA	6461 CD2 PHE 64	
ATOM	6462 CE1 PHE 64	
ATOM	6463 CE2 PHE 64	
MOTA	6464 CZ PHE 64	51.802 17.214 60.898 1.00 30.78 B
ATOM	6465 C PHE 64	55.729 15.682 56.000 1.00 28.41 B
MOTA	6466 O PHE 64	55.282 16.187 54.961 1.00 30.78 B
MOTA	6467 N LYS 65	56.958 15.152 56.105 1.00 17.17 B
ATOM	6468 H LYS 65	57.226 14.841 56.992 1.00 0.00 B
MOTA	6469 CA LYS 65	57.920 15.011 55.005 1.00 17.17 B
MOTA	6470 CB LYS 65	58.838 13.824 55.300 1.00 42.93 B
ATOM	6471 CG LYS 65	60.196 14.129 55.874 1.00 42.93 B
MOTA	6472 CD LYS 65	61.287 13.393 55.122 1.00 42.93 B
MOTA	6473 CE LYS 65	62.551 14.256 54.977 1.00 42.93 B
ATOM	6474 NZ LYS 65	62.389 15.411 54.021 1.00 42.93 B
MOTA	6475 HZ1 LYS 65	61.792 15.142 53.212 1.00 0.00 B
MOTA	6476 HZ2 LYS 65	63.335 15.677 53.672 1.00 0.00 B
ATOM	6477 HZ3 LYS 65	61.982 16.209 54.537 1.00 0.00 B
ATOM	6478 C LYS 65	57.229 14.725 53.666 1.00 17.17 B
ATOM	6479 O LYS 65	57.636 15.265 52.633 1.00 42.93 B
MOTA	6480 N SER 66	56.177 13.891 53.671 1.00 36.21 B
MOTA	6481 H SER 66	55.872 13.526 54.525 1.00 0.00 B
MOTA	6482 CA SER 66	55.469 13.528 52.431 1.00 36.21 B
MOTA	6483 CB SER 66	55.226 12.029 52.388 1.00 22.53 B
ATOM	6484 OG SER 66	56.148 11.353 53.209 1.00 22.53 B
MOTA	6485 HG SER 66	56.007 10.404 53.145 1.00 0.00 B
ATOM	6486 C SER 66	54.131 14.200 52.205 1.00 36.21 B
ATOM	6487 O SER 66	53.670 14.366 51.053 1.00 22.53 B
ATOM	6488 N LYS 67	53.489 14.543 53.314 1.00 28.37 B
ATOM	6489 H LYS 67	53.905 14.368 54.176 1.00 0.00 B
ATOM	6490 CA LYS 67	52.187 15.166 53.253 1.00 28.37 B
ATOM	6491 CB LYS 67	51.539 15.192 54.653 1.00 21.48 B
MOTA	6492 CG LYS 67	50.490 14.089 54.899 1.00 21.48 B
ATOM	6493 CD LYS 67	49.695 13.699 53.660 1.00 21.48 B

ATOM	6494 CE LYS 67	48.419 12.978 54.058 1.00 21.48 B
ATOM	- -	48.412 11.453 53.864 1.00 21.48 B
ATOM		48.848 10.975 54.685 1.00 0.00 B
ATOM		48.935 11.206 53.002 1.00 0.00 B
ATOM		47.421 11.138 53.770 1.00 0.00 B
ATOM		52.301 16.577 52.758 1.00 28.37 B
ATOM		51.401 17.077 52.063 1.00 21.48 B
ATOM		53.436 17.201 53.069 1.00 2.148 B
ATOM		54.160 16.732 53.491 1.00 0.00 B
ATOM	6503 CA ALA 68	53.570 18.607 52.764 1.00 2.25 B
ATOM		53.834 19.347 54.040 1.00 29.87 B
ATOM		54.534 19.045 51.723 1.00 2.25 B
ATOM	6506 O ALA 68	55.598 18.515 51.613 1.00 29.87 B
ATOM	6507 N THR 69	54.141 20.044 50.977 1.00 15.37 B
ATOM	6508 H THR 69	53.242 20.426 51.125 1.00 0.00 B
ATOM	6509 CA THR 69	54.963 20.590 49.942 1.00 15.37 B
ATOM	6510 CB THR 69	54.504 20.073 48.514 1.00 21.71 B
ATOM	6511 OG1 THR 69	
ATOM	6512 HG1 THR 69	
ATOM	6513 CG2 THR 69	
ATOM	6514 C THR 69	54.848 22.126 50.039 1.00 15.37 B
ATOM	6515 O THR 69	53.873 22.749 49.595 1.00 21.71 B
ATOM	6516 N LEU 70	55.881 22.729 50.611 1.00 21.90 B
MOTA	6517 H LEU 70	56.631 22.187 50.919 1.00 0.00 B
ATOM	6518 CA LEU 70	55.907 24.156 50.787 1.00 21.90 B
MOTA	6519 CB LEU 70	56.519 24.497 52.146 1.00 4.97 B
MOTA	6520 CG LEU 70	56.125 23.567 53.288 1.00 4.97 B
MOTA	6521 CD1 LEU 70	56.843 23.958 54.576 1.00 4.97 B
ATOM	6522 CD2 LEU 70	54.612 23.573 53.393 1.00 4.97 B
ATOM	6523 C LEU 70	56.667 24.939 49.756 1.00 21.90 B
ATOM	6524 O LEU 70	57.865 24.886 49.764 1.00 4.97 B
ATOM	6525 N THR 71	55.987 25.695 48.896 1.00 8.97 B
MOTA	6526 H THR 71	55.001 25.659 48.902 1.00 0.00 B
MOTA	6527 CA THR 71	56.673 26.552 47.959 1.00 8.97 B
MOTA	6528 CB THR 71	56.199 26.293 46.588 1.00 18.73 B
ATOM ATOM	6529 OG1 THR 71 6530 HG1 THR 71	54.960 26.978 46.355 1.00 18.73 B
ATOM	6530 HG1 THR 71 6531 CG2 THR 71	54.966 27.373 45.475 1.00 0.00 B
ATOM	6532 C THR 71	56.066 24.805 46.401 1.00 18.73 B
ATOM	6533 O THR 71	56.360 28.002 48.317 1.00 8.97 B 55.684 28.281 49.328 1.00 18.73 B
ATOM	6534 N VAL 72	55.684 28.281 49.328 1.00 18.73 B 56.842 28.943 47.513 1.00 14.83 B
ATOM	6535 H VAL 72	57.401 28.688 46.747 1.00 0.00 B
ATOM	6536 CA VAL 72	56.549 30.355 47.751 1.00 14.83 B
ATOM	6537 CB VAL 72	57.604 31.051 48.671 1.00 19.72 B
ATOM	6538 CG1 VAL 72	57.717 30.337 49.962 1.00 19.72 B
ATOM	6539 CG2 VAL 72	58.977 31.105 47.992 1.00 19.72 B
ATOM	6540 C VAL 72	56.582 30.993 46.370 1.00 14.83 B
MOTA	6541 O VAL 72	56.793 30.291 45.379 1.00 19.72 B
MOTA	6542 N ASP 73	56.364 32.309 46.319 1.00 13.99 B
MOTA	6543 H ASP 73	56.199 32.775 47.174 1.00 0.00 B
MOTA	6544 CA ASP 73	56.341 33.106 45.101 1.00 13.99 B
MOTA	6545 CB ASP 73	54.933 33.147 44.514 1.00 22.49 B
ATOM	6546 CG ASP 73	54.755 34.264 43.456 1.00 22.49 B
ATOM	6547 OD1 ASP 73	55.369 35.369 43.538 1.00 22.49 B
MOTA	6548 OD2 ASP 73	53.967 34.025 42.522 1.00 22.49 B
ATOM	6549 C ASP 73	56.738 34.512 45.532 1.00 13.99 B

ATOM	6550	O ASP	73	55.882 35.359 45.825 1.00 22.49	В
ATOM	6551		74	58.040 34.758 45.562 1.00 23.55	В
ATOM	6552		74	58.663 34.056 45.292 1.00 0.00	В
ATOM		CA LYS	74	58.563 36.048 45.998 1.00 23.55	В
ATOM		CB LYS	74	60.037 36.125 45.652 1.00 29.78	В
ATOM		CG LYS		60.913 36.172 46.877 1.00 29.78	В
ATOM		CD LYS	74	61.835 34.949 46.936 1.00 29.78	В
ATOM		CE LYS	74	63.147 35.190 46.169 1.00 29.78	В
ATOM		NZ LYS	74	63.007 34.955 44.690 1.00 29.78	В
ATOM		HZ1 LYS		63.765 34.319 44.348 1.00 0.00	В
ATOM		HZ2 LYS		63.085 35.873 44.220 1.00 0.00	В
ATOM	6561	HZ3 LYS		62.077 34.526 44.486 1.00 0.00	В
ATOM	6562		74	57.847 37.284 45.465 1.00 23.55	В
ATOM	6563		74	57.632 38.288 46.171 1.00 29.78	B
ATOM	6564		75	57.484 37.194 44.200 1.00 31.34	B
ATOM	6565		75	57.648 36.371 43.695 1.00 0.00	В
ATOM		CA SER		56.862 38.303 43.535 1.00 31.34	В
ATOM		CB SER		56.574 37.945 42.068 1.00 22.96	В
ATOM		OG SER		55.356 37.213 41.958 1.00 22.96	В
ATOM		HG SER		55.365 36.720 41.137 1.00 0.00	В
ATOM	6570	C SER	75	55.602 38.679 44.253 1.00 31.34	В
ATOM	6571	O SER	75	55.284 39.869 44.350 1.00 22.96	В
ATOM	6572	N ALA	76	54.884 37.678 44.774 1.00 17.90	В
ATOM	6573	H ALA	76	55.205 36.766 44.714 1.00 0.00	В
MOTA	6574	CA ALA	76	53.605 37.974 45.433 1.00 17.90	В
ATOM	6575	CB ALA	76	52.481 37.166 44.785 1.00 18.84	В
MOTA	6576	C ALA	76	53.553 37.803 46.920 1.00 17.90	В
MOTA	6577	O ALA	76	52.483 37.851 47.500 1.00 18.84	В
MOTA	6578	N SER	77	54.712 37.608 47.535 1.00 28.55	В
MOTA	6579	H SER	77	55.542 37.599 47.003 1.00 0.00	В
ATOM	6580	CA SER	77	54.798 37.419 48.984 1.00 28.55	В
ATOM	6581	CB SER	77	54.642 38.741 49.671 1.00 14.82	В
ATOM	6582	OG SER		54.654 39.712 48.647 1.00 14.82	В
ATOM		HG SER		54.243 40.531 48.937 1.00 0.00	В
ATOM	6584		77	53.678 36.519 49.379 1.00 28.55	В
ATOM	6585		77	52.787 36.918 50.069 1.00 14.82	В
ATOM	6586	N THR	78	53.728 35.292 48.900 1.00 2.79	В
ATOM	6587		78	54.488 35.022 48.338 1.00 0.00	В
ATOM		CA THR	78	52.685 34.355 49.190 1.00 2.79	В
MOTA		CB THR	78	51.706 34.211 48.016 1.00 5.58	В
MOTA		OG1 THE		50.935 35.398 47.892 1.00 5.58	В
ATOM		HG1 THR		50.218 35.419 48.526 1.00 0.00	В
ATOM		CG2 THR		50.763 33.058 48.246 1.00 5.58	_ B
MOTA	6593	C THR	78	53.312 33.022 49.426 1.00 2.79	В
MOTA	6594	O THR	78	53.928 32.505 48.562 1.00 5.58	В
MOTA		N ALA	79	53.168 32.487 50.623 1.00 13.42	В
ATOM ATOM		H ALA	79	52.684 32.976 51.326 1.00 0.00	B_
ATOM		CA ALA	79 70	53.727 31.196 50.923 1.00 13.42	В
ATOM	6599	CB ALA	79 70	53.992 31.058 52.413 1.00 20.49	В
ATOM	6600	O ALA	79 70	52.651 30.233 50.465 1.00 13.42	В
ATOM	6601	N TYR	79 80	51.480 30.573 50.502 1.00 20.49	В
ATOM		H TYR	80 80	53.046 29.050 49.991 1.00 13.55	В
ATOM		CA TYR	80	53.997 28.864 49.932 1.00 0.00 52.090 28.040 49.552 1.00 13.55	В
ATOM	6604		80	52.175 27.864 48.034 1.00 14.48	В
ATOM		CG TYR	80		В
		111	50	51.566 29.009 47.251 1.00 14.48	В

ATOM	6606	CD1 TYR	80	50.196 29.024 46.968 1.00 14.48	В
ATOM	6607			49.622 30.071 46.278 1.00 14.48	В
ATOM	6608				В
MOTA	6609				В
MOTA		CZ TYR	80	50.410 31.145 45.848 1.00 14.48	В
MOTA	6611		80	49.779 32.189 45.161 1.00 14.48	В
ATOM		HH TYR	80	48.878 31.937 44.958 1.00 0.00	В
ATOM	6613		80	52.400 26.714 50.241 1.00 13.55	В
MOTA	6614		80	53.558 26.434 50.537 1.00 14.48	В
ATOM	6615		81	51.375 25.922 50.534 1.00 2.00	В
ATOM ATOM	6616		81	50.467 26.243 50.344 1.00 0.00	В
		CA MET		51.540 24.585 51.113 1.00 2.00 51.155 24.523 52.589 1.00 15.81	В
MOTA		CG MET	81		В
MOTA	6620		81 81		В
MOTA MOTA	6621		81	51.195 22.558 54.715 1.00 15.81 50.026 23.297 55.780 1.00 15.81	B B
ATOM	6622		81	50.648 23.614 50.327 1.00 2.00	
ATOM	6623		81		В
ATOM	6624		82	49.532 23.945 49.935 1.00 15.81 51.183 22.424 50.053 1.00 26.13	B B
ATOM	6625		82	52.098 22.233 50.344 1.00 0.00	В
ATOM		CA GLU	82	50.444 21.398 49.328 1.00 26.13	В
ATOM	6627		82	51.050 21.098 47.966 1.00 29.86	В
ATOM	6628		82	50.106 20.268 47.100 1.00 29.86	В
ATOM		CD GLU	82	50.058 20.750 45.674 1.00 29.86	В
ATOM		OE1 GLU		49.644 21.902 45.433 1.00 29.86	В
ATOM		OE2 GLU		50.447 19.974 44.784 1.00 29.86	В
ATOM	6632		82	50.419 20.140 50.138 1.00 26.13	В
ATOM	6633		82	51.442 19.680 50.640 1.00 29.86	В
ATOM	6634		83	49.226 19.597 50.284 1.00 24.49	В
ATOM	6635		83	48.440 20.005 49.867 1.00 0.00	В
ATOM	6636		83	49.079 18.397 51.054 1.00 24.49	В
ATOM	6637	CB LEU	83	48.071 18.610 52.188 1.00 18.65	В
ATOM	6638	CG LEU	83	48.430 19.641 53.270 1.00 18.65	В
MOTA	6639	CD1 LEU	83	47.154 20.082 53.975 1.00 18.65	В
MOTA	6640	CD2 LEU	83	49.405 19.055 54.314 1.00 18.65	В
MOTA	6641	C LEU	83	48.628 17.317 50.074 1.00 24.49	В
MOTA	6642	O LEU	83	47.656 17.512 49.282 1.00 18.65	В
ATOM	6643	N SER	84	49.354 16.183 50.139 1.00 21.24	В
ATOM	6644	H SER	84	50.068 16.147 50.810 1.00 0.00	В
ATOM		CA SER	84	49.142 15.008 49.282 1.00 21.24	В
ATOM		CB SER	84	50.454 14.348 48.961 1.00 12.58	В
MOTA		OG SER	84	50.596 13.205 49.810 1.00 12.58	В
ATOM	6648	HG SER	84	51.460 13.190 50.218 1.00 0.00	В
ATOM	6649	C SER	84	48.286 13.899 49.844 1.00 21.24	В
MOTA	6650	O SER	84	48.401 13.525 51.000 1.00 12.58	В
MOTA	6651	N SER	85	47.463 13.346 48.973 1.00 12.92	В
ATOM		H SER	85	47.430 13.685 48.050 1.00 0.00	В
MOTA MOTA		CA SER	85	46.599 12.237 49.336 1.00 12.92	В
ATOM		CB SER	85	47.410 10.951 49.186 1.00 11.52	В
ATOM		OG SER HG SER	85	48.717 11.297 48.802 1.00 11.52	В
ATOM	6657	C SER	85 85	49.300 11.134 49.551 1.00 0.00	В
ATOM	6658	O SER	85 85	46.015 12.353 50.732 1.00 12.92	В
ATOM		N LEU	85 86	46.331 11.541 51.605 1.00 11.52	В
ATOM		H LEU	86	45.114 13.321 50.939 1.00 25.57	В
ATOM	6661		86	44.796 13.904 50.210 1.00 0.00	В
		J, LLU	50	44.615 13.471 52.284 1.00 25.57	В

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ATOM	6662 CB LEU 86	43.980 14.843 52.589 1.00 19.98	В
		44.178 16.094 51.753 1.00 19.98	В
MOTA			В
ATOM	6664 CD1 LEU 86		
ATOM	6665 CD2 LEU 86	45.439 16.792 52.153 1.00 19.98	В
MOTA	6666 C LEU 86	43.650 12.423 52.660 1.00 25.57	В
ATOM	6667 O LEU 86	42.993 11.804 51.834 1.00 19.98	В
ATOM	6668 N ARG 87	43.607 12.241 53.959 1.00 10.09	В
MOTA	6669 H ARG 87	44.177 12.729 54.564 1.00 0.00	В
ATOM	6670 CA ARG 87	42.734 11.330 54.576 1.00 10.09	В
ATOM	6671 CB ARG 87	43.500 10.116 55.120 1.00 21.35	В
ATOM	6672 CG ARG 87	44.917 10.371 55.593 1.00 21.35	В
ATOM	6673 CD ARG 87	45.548 9.076 56.104 1.00 21.35	В
ATOM	6674 NE ARG 87	46.333 9.279 57.326 1.00 21.35	В
ATOM	6675 HE ARG 87	46,477 10,204 57,626 1,00 0.00	В
ATOM	6676 CZ ARG 87	46.867 8.296 58.058 1.00 21.35	В
ATOM	6677 NH1 ARG 87	46,690 7.031 57,685 1.00 21.35	В
ATOM	6678 HH11 ARG 87	47.511 6.491 57.498 1.00 0.00	В
ATOM	6679 HH12 ARG 87	45.808 6.571 57.827 1.00 0.00	В
ATOM	6680 NH2 ARG 87	47.603 8.578 59.136 1.00 21.35	В
ATOM	6681 HH21 ARG 87	47.193 9.168 59.840 1.00 0.00	В
ATOM	6682 HH22 ARG 87	48.400 8.028 59.362 1.00 0.00	В
ATOM	6683 C ARG 87	42.154 12.134 55.705 1.00 10.09	В
ATOM	6684 O ARG 87	42.618 13.221 56.027 1.00 21.35	В
ATOM	6685 N SER 88	41.099 11.568 56.265 1.00 34.06	В
ATOM	6686 H SER 88	40.779 10.722 55.883 1.00 0.00	В
ATOM	6687 CA SER 88	40,370 12.109 57.390 1.00 34.06	В
MOTA	6688 CB SER 88	39.763 10.940 58.087 1.00 25.88	В
ATOM	6689 OG SER 88	40.800 9.963 58.102 1.00 25.88	В
ATOM	6690 HG SER 88	41.097 9.819 59.007 1.00 0.00	В
ATOM	6691 C SER 88	41.401 12.735 58.309 1.00 34.06	В
MOTA	6692 O SER 88	41.315 13.894 58.668 1.00 25.88	В
ATOM	6693 N GLU 89	42.377 11.919 58.687 1.00 14.66	В
ATOM	6694 H GLU 89	42.379 11.005 58.342 1.00 0.00	В
ATOM	6695 CA GLU 89	43.459 12.314 59.575 1.00 14.66	В
ATOM	6696 CB GLU 89	44.553 11.233 59.516 1.00 19.94	В
ATOM	6697 CG GLU 89	44.398 10.177 60.595 1.00 19.94	В
ATOM	6698 CD GLU 89	43.931 8.795 60.088 1.00 19.94	В
ATOM	6699 OE1 GLU 89	43.734 7.876 60.961 1.00 19.94	В
ATOM	6700 OE2 GLU 89	43.772 8.630 58.843 1.00 19.94	B
ATOM	6701 C GLU 89	44.046 13.705 59.294 1.00 14.66	В
ATOM	6702 O GLU 89	44.622 14.323 60.183 1.00 19.94	В
MOTA	6703 N ASP 90	43.907 14.176 58.052 1.00 27.36	В
ATOM	6704 H ASP 90	43.455 13.603 57.418 1.00 0.00	В
ATOM	6705 CA ASP 90	44.409 15.485 57.630 1.00 27.36	В
ATOM	6706 CB ASP 90	44.713 15.450 56.147 1.00 26.45	В
MOTA	6707 CG ASP 90	45.602 14.298 55.785 1.00 26.45	В
MOTA	6708 OD1 ASP 90	46.449 13.917 56.618 1.00 26.45	В
ATOM	6709 OD2 ASP 90	45.470 13.759 54.673 1.00 26.45	В
ATOM	6710 C ASP 90	43.429 16.616 57.925 1.00 27.36	В
ATOM	6711 O ASP 90	43.819 17.793 57.869 1.00 26.45	В
ATOM	6712 N THR 91	42.172 16.283 58.243 1.00 3.02	В
ATOM	6713 H THR 91	41.930 15.356 58.277 1.00 0.00	В
MOTA	6714 CA THR 91	41.242 17.323 58.523 1.00 3.02	В
MOTA	6715 CB THR 91	39.910 16.826 58.874 1.00 8.99	В
ATOM	6716 OG1 THR 91	39.396 16.033 57.808 1.00 8.99	В
MOTA	6717 HG1 THR 91	40.101 15.863 57.165 1.00 0.00	В

ATOM 6769 SG CYS 96 50.055 32.008 56.829 1.00 3.23 B ATOM 6770 N THR 97 52.353 30.755 59.840 1.00 10.52 B ATOM 6771 H THR 97 52.895 29.963 59.684 1.00 0.00 B ATOM 6772 CA THR 97 52.834 31.775 60.777 1.00 10.52 B						
ATOM 6719 C THR 91 41.763 18.158 58.670 1.00 3.02 B ATOM 6721 N ALA 92 41.273 19.828 58.673 1.00 0.00 B ATOM 6722 CA ALA 92 41.273 19.828 58.673 1.00 0.00 B ATOM 6723 CA ALA 92 41.273 19.828 58.673 1.00 0.00 B ATOM 6726 O ALA 92 41.661 19.965 60.889 1.00 8.55 B ATOM 6726 O ALA 92 41.563 22.111 59.011 1.00 9.04 B ATOM 6726 O ALA 92 41.563 22.111 59.011 1.00 9.04 B ATOM 6727 N VAL 93 42.798 22.639 60.807 1.00 16.84 B ATOM 6730 CB VAL 93 42.923 24.026 60.439 1.00 16.84 B ATOM 6731 CG1 VAL 93 43.206 26.278 61.425 1.00 10.41 B ATOM 6731 CG1 VAL 93 43.206 26.278 61.425 1.00 10.41 B ATOM 6737 CA TYR 94 44.778 24.779 59.141 1.00 13.89 B ATOM 6736 CD TYR 94 45.211 21.962 57.339 1.00 15.77 B ATOM 6740 CD1 TYR 94 45.211 21.962 57.339 1.00 15.77 B ATOM 6740 CD1 TYR 94 45.211 21.962 57.339 1.00 15.77 B ATOM 6740 CD TYR 94 46.381 22.6297 58.893 1.00 15.77 B ATOM 6740 CD TYR 94 46.381 22.6297 58.893 1.00 15.77 B ATOM 6740 CD TYR 94 46.381 22.6297 58.893 1.00 15.77 B ATOM 6740 CD TYR 94 46.381 22.6297 58.893 1.00 15.77 B ATOM 6740 CD TYR 94 46.381 22.6297 58.893 1.00 15.77 B ATOM 6740 CT TYR 94 46.381 22.6297 58.893 1.00 15.77 B ATOM 6745 CH TYR 94 46.381 22.6297 58.893 1.00 15.77 B ATOM 6745 CH TYR 94 46.381 22.6297 58.893 1.00 15.77 B ATOM 6745 CH TYR 94 46.381 22.6297 58.893 1.00 15.77 B ATOM 6745 CH TYR 94 46.381 22.6297 58.893 1.00 15.77 B ATOM 6757 CE TYR 94 46.381 22.6297 58.893 1.00 15.77 B ATOM 6757 CE TYR 95 47.516 26.556 59.741 1.00 25.51 B ATOM 6756 CD TYR 95 ATOM 6757 CE TYR 95 ATOM 6756 C CYS 96 ATOM 6766 C CYS 96 ATOM 6766 C CYS 96 ATOM 6767 O CYS 96 ATOM 6767 O CYS 96 ATOM 6767 O CYS 96 ATOM 6767 O CYS 96 ATOM 6767 O CYS 96 ATOM 6767 C CYS 96 ATOM 6767 O CY	ATOM	6718	CG2 THR	91	30.013 17.969 59.018 1.00 8.99	В
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ATOM 6728 H VAL 93	ATOM	6726	O ALA			В
ATOM 6730 CB VAL 93		6727	N VAL	93		В
ATOM 6730 CB VAL 93	ATOM	6728	H VAL	93		В
ATOM 6731 CG1 VAL 93	ATOM	6729	CA VAL	93	42.923 24.026 60.439 1.00 16.84	В
ATOM 6732 CG2 VAL 93 41.038 25.101 61.538 1.00 10.41 B ATOM 6733 C VAL 93 44.389 24.068 60.187 1.00 16.84 B ATOM 6734 O VAL 93 44.778 24.779 59.141 1.00 13.89 B ATOM 6735 N TYR 94 44.778 24.779 59.141 1.00 13.89 B ATOM 6736 CA TYR 94 46.381 22.694 57.506 1.00 15.77 B ATOM 6738 CB TYR 94 46.381 22.694 57.506 1.00 15.77 B ATOM 6740 CD1 TYR 94 45.179 20.591 57.540 1.00 15.77 B ATOM 6741 CE1 TYR 94 45.179 20.591 57.540 1.00 15.77 B ATOM 6742 CD2 TYR 94 47.526 22.000 57.868 1.00 15.77 B ATOM 6744 CZ TYR 94 46.381 19.926 57.912 1.00 15.77 B ATOM 6745 OH TYR 94 46.381 19.926 57.912 1.00 15.77 B ATOM 6746 CHH TYR 94 46.381 19.926 57.912 1.00 15.77 B ATOM 6746 O TYR 94 46.381 19.926 57.912 1.00 15.77 B ATOM 6746 O TYR 94 46.381 19.926 57.912 1.00 15.77 B ATOM 6746 O TYR 94 46.382 26.297 58.893 1.00 15.77 B ATOM 6740 CTYR 94 46.532 26.297 58.893 1.00 15.77 B ATOM 6740 CTYR 94 46.382 19.926 57.912 1.00 15.77 B ATOM 6740 CTYR 94 46.382 19.926 57.912 1.00 15.77 B ATOM 6740 CTYR 94 46.382 19.926 57.912 1.00 15.77 B ATOM 6740 CTYR 94 46.382 19.926 57.912 1.00 15.77 B ATOM 6740 CTYR 94 46.382 19.926 57.912 1.00 15.77 B ATOM 6740 CTYR 94 46.382 19.926 57.912 1.00 15.77 B ATOM 6740 CTYR 94 46.382 19.926 57.912 1.00 15.77 B ATOM 6750 CTYR 95 46.265 56 59.741 1.00 15.78 B ATOM 6750 CTYR 95 47.516 26.556 59.741 1.00 15.78 B ATOM 6750 CTYR 95 48.227 27.886 60.023 1.00 25.51 B ATOM 6750 CD TYR 95 48.227 27.886 60.023 1.00 25.51 B ATOM 6750 CD TYR 95 45.148 29.677 62.768 1.00 18.69 B ATOM 6760 HH TYR 95 44.773 28.812 63.822 1.00 18.69 B ATOM 6760 CTYR 95 43.670 29.130 64.606 1.00 18.69 B ATOM 6760 CTYR 95 43.670 29.130 64.606 1.00 18.69 B ATOM 6760 CTYR 95 43.670 29.130 64.606 1.00 18.69 B ATOM 6760 CTYS 96 50.055 32.008 56.829 1.00 3.23 B ATOM 6760 TO CYS 96 50.055 32.008 56.829 1.00 3.23 B ATOM 6760 TO CYS 96 50.055 32.008 56.829 1.00 3.23 B ATOM 6770 CTYR 97 52.835 30.755 59.840 1.00 10.52 B ATOM 6771 H THR 97 52.835 30.755 59.840 1.00 10.52 B	ATOM	6730	CB VAL	93		В
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ATOM 6734 O VAL 93	ATOM	6732	CG2 VAL	93	41.038 25.101 61.538 1.00 10.41	В
ATOM 6735 N TYR 94 ATOM 6736 H TYR 94 ATOM 6737 CA TYR 94 ATOM 6738 CB TYR 94 ATOM 6738 CB TYR 94 ATOM 6739 CG TYR 94 ATOM 6740 CD1 TYR 94 ATOM 6741 CE1 TYR 94 ATOM 6742 CD2 TYR 94 ATOM 6742 CD2 TYR 94 ATOM 6744 CZ TYR 94 ATOM 6745 OH TYR 94 ATOM 6746 CH TYR 94 ATOM 6746 CH TYR 94 ATOM 6747 C TYR 94 ATOM 6746 C TYR 94 ATOM 6747 C TYR 94 ATOM 6748 O TYR 94 ATOM 6748 O TYR 94 ATOM 6750 H TYR 95 ATOM 6750 CB TYR 95 ATOM 6760	MOTA	6733	C VAL	93	44.389 24.068 60.187 1.00 16.84	В
ATOM 6736 H TYR 94	MOTA	6734	O VAL	93	45.160 23.397 60.878 1.00 10.41	В
ATOM 6737 CA TYR 94 ATOM 6738 CB TYR 94 ATOM 6738 CB TYR 94 ATOM 6739 CG TYR 94 ATOM 6740 CD1 TYR 94 ATOM 6741 CE1 TYR 94 ATOM 6742 CD2 TYR 94 ATOM 6742 CD2 TYR 94 ATOM 6743 CE2 TYR 94 ATOM 6744 CZ TYR 94 ATOM 6745 OH TYR 94 ATOM 6746 HH TYR 94 ATOM 6746 CD1 TYR 94 ATOM 6747 C TYR 94 ATOM 6748 O TYR 94 ATOM 6750 H TYR 95 ATOM 6750 CB TYR 95 ATOM 6751 CA TYR 95 ATOM 6752 CB TYR 95 ATOM 6755 CE1 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6760 HH TYR 95 ATOM 6760 CYS 96 ATOM 6760 C CYS 96 ATOM 6760 C CYS 96 ATOM 6760 C CYS 96 ATOM 6760 C CYS 96 ATOM 6760 C CYS 96 ATOM 6760 C CYS 96 ATOM 6760 C CYS 96 ATOM 6760 C CYS 96 ATOM 6760 C CYS 96 ATOM 6760 N THR 97 ATOM 6760 C C CYS 96 ATOM 6760 C CYS 96 ATOM 6	ATOM	6735	N TYR	94	44.778 24.779 59.141 1.00 13.89	В
ATOM 6737 CA TYR 94 ATOM 6738 CB TYR 94 ATOM 6738 CB TYR 94 ATOM 6739 CG TYR 94 ATOM 6740 CD1 TYR 94 ATOM 6741 CE1 TYR 94 ATOM 6742 CD2 TYR 94 ATOM 6743 CE2 TYR 94 ATOM 6744 CZ TYR 94 ATOM 6745 OH TYR 94 ATOM 6745 OH TYR 94 ATOM 6746 HH TYR 94 ATOM 6746 CD1 TYR 94 ATOM 6747 C TYR 94 ATOM 6748 O TYR 94 ATOM 6748 O TYR 95 ATOM 6750 H TYR 95 ATOM 6751 CA TYR 95 ATOM 6752 CB TYR 95 ATOM 6755 CE1 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6760 HH TYR 95 ATOM 6761 C TYR 95 ATOM 6760 CYS 96 ATOM 6765 CA CYS 96 ATOM 6766 C CYS 96 ATOM 6767 O CY	ATOM	6736	H TYR	94	44.140 25.245 58.595 1.00 0.00	В
ATOM 6738 CB TYR 94		6737	CA TYR	94	46.177 24.848 58.801 1.00 13.89	В
ATOM 6739 CG TYR 94 ATOM 6740 CD1 TYR 94 ATOM 6741 CE1 TYR 94 ATOM 6742 CD2 TYR 94 ATOM 6742 CD2 TYR 94 ATOM 6743 CE2 TYR 94 ATOM 6743 CE2 TYR 94 ATOM 6744 CZ TYR 94 ATOM 6745 OH TYR 94 ATOM 6746 HH TYR 94 ATOM 6746 HH TYR 94 ATOM 6747 C TYR 94 ATOM 6748 O TYR 94 ATOM 6749 N TYR 95 ATOM 6750 H TYR 95 ATOM 6751 CA TYR 95 ATOM 6752 CB TYR 95 ATOM 6754 CD1 TYR 95 ATOM 6755 CE1 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6757 CE2 TYR 95 ATOM 6750 OH TYR 95 ATOM 6750 CG TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6757 CE2 TYR 95 ATOM 6758 CZ TYR 95 ATOM 6759 OH TYR 95 ATOM 6760 HH TYR 95 ATOM 6760 CD2 TYR 95 ATOM 676				94		В
ATOM 6740 CD1 TYR 94 ATOM 6741 CE1 TYR 94 ATOM 6742 CD2 TYR 94 ATOM 6743 CE2 TYR 94 ATOM 6744 CZ TYR 94 ATOM 6745 OH TYR 94 ATOM 6746 HH TYR 94 ATOM 6746 O TYR 94 ATOM 6747 C TYR 94 ATOM 6748 O TYR 94 ATOM 6750 H TYR 95 ATOM 6751 CA TYR 95 ATOM 6752 CB TYR 95 ATOM 6755 CE1 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6757 CE2 TYR 95 ATOM 6758 CZ TYR 95 ATOM 6758 CZ TYR 95 ATOM 6759 OH TYR 95 ATOM 6760 HH TYR 95 ATOM 6760 CD2 TYR 95 ATOM 6766 C CYS 96 ATOM 6767 O CYS 96 ATOM 6767 O CYS 96 ATOM 6767 O CYS 96 ATOM 6769 SG CYS 96 ATOM 6760 G771 H THR 97 ATOM 6771 CA THR 97 ATOM 6767 O CYS 96 ATOM 6770 N THR 97 52.895 29.983 59.684 1.00 10.52 B ATOM 6771 H THR 97 52.895 29.983 59.684 1.00 10.52 B	ATOM	6739	CG TYR			В
ATOM 6741 CE1 TYR 94 ATOM 6742 CD2 TYR 94 ATOM 6743 CE2 TYR 94 ATOM 6744 CZ TYR 94 ATOM 6745 OH TYR 94 ATOM 6746 HH TYR 94 ATOM 6747 C TYR 94 ATOM 6748 O TYR 94 ATOM 6749 N TYR 95 ATOM 6750 H TYR 95 ATOM 6751 CA TYR 95 ATOM 6752 CB TYR 95 ATOM 6755 CE1 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6757 CE2 TYR 95 ATOM 6758 CZ TYR 95 ATOM 6760 HH TYR 95 ATOM 6761 C TYR 95 ATOM 6766 C CYS 96 ATOM 6766 C CYS 96 ATOM 6767 O CYS 96 ATOM 6768 CR CYS 96 ATOM 6768 CR CYS 96 ATOM 6768 CR CYS 96 ATOM 6768 CR CYS 96 ATOM 67				94		В
ATOM 6742 CD2 TYR 94	ATOM					_
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ATOM 6744 CZ TYR 94 ATOM 6745 OH TYR 94 ATOM 6746 HH TYR 94 ATOM 6746 HH TYR 94 ATOM 6747 C TYR 94 ATOM 6748 O TYR 94 ATOM 6748 O TYR 94 ATOM 6749 N TYR 95 ATOM 6750 H TYR 95 ATOM 6751 CA TYR 95 ATOM 6752 CB TYR 95 ATOM 6754 CD1 TYR 95 ATOM 6755 CE1 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6757 CE2 TYR 95 ATOM 6758 CZ TYR 95 ATOM 6758 CZ TYR 95 ATOM 6750 H TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6756 CD2 TYR 95 ATOM 6757 CE2 TYR 95 ATOM 6760 HH TYR 95 ATOM 6760 C CYS 96 ATOM 6765 CA CYS 96 ATOM 6766 C C CYS 96 ATOM 6767 O CYS 96 ATOM 6767 O CYS 96 ATOM 6767 O CYS 96 ATOM 6767 O CYS 96 ATOM 6768 CB CYS 96 ATOM 6767 O CYS 96 ATOM 6767 O CYS 96 ATOM 6767 O CYS 96 ATOM 6767 O CYS 96 ATOM 6767 O CYS 96 ATOM 6767 O THR 97 ATOM 6767 O THR 97 ATOM 6767 O THR 97 ATOM 6767 O THR 97 ATOM 6767 O CYS 96 ATOM 6768 B CYS 96 ATOM 6768 B CYS 96 ATOM 6769 SG CYS 96 ATOM						
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ATOM 6747 C TYR 94 46.532 26.297 58.893 1.00 13.89 B ATOM 6748 O TYR 94 45.904 27.153 58.270 1.00 15.77 B ATOM 6749 N TYR 95 47.516 26.556 59.741 1.00 25.51 B ATOM 6750 H TYR 95 47.878 25.802 60.193 1.00 0.00 B ATOM 6751 CA TYR 95 48.027 27.886 60.023 1.00 25.51 B ATOM 6752 CB TYR 95 48.253 28.027 61.512 1.00 18.69 B ATOM 6753 CG TYR 95 46.253 29.409 62.017 1.00 18.69 B ATOM 6754 CD1 TYR 95 46.253 29.409 62.017 1.00 18.69 B ATOM 6755 CE1 TYR 95 45.148 29.677 62.768 1.00 18.69 B ATOM 6756 CD2 TYR 95 46.645 27.428 63.308 1.00 18.69 B ATOM 6757 CE2 TYR 95 44.773 28.812 63.822 1.00 18.69 B ATOM 6759 OH TYR 95 43.670 29.130 64.606 1.00 18.69 B ATOM 6760 HH TYR 95 49.352 28.173 59.415 1.00 25.51 B ATOM 6763 N CYS 96 49.489 29.341 58.792 1.00 15.24 B ATOM 6766 C CYS 96 50.493 31.876 59.360 1.00 3.23 B ATOM 6768 CB CYS 96 50.650 30.316 56.844 1.00 0.00 B ATOM 6769 SG CYS 96 50.650 30.316 56.844 1.00 0.00 B ATOM 6767 N THR 97 52.834 31.775 60.777 1.00 10.52 B						_
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	ATOM					

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MOTA	6774 OG1 THR 97	53.278 32.242 63.146 1.00 10.27	В
MOTA	6775 HG1 THR 97	53,177 31.919 64.055 1.00 0.00	В
ATOM	6776 CG2 THR 97	53.486 29.966 62.452 1.00 10.27	В
ATOM	6777 C THR 97	54.276 32.179 60.503 1.00 10.52	В
ATOM	6778 O THR 97	55.137 31.358 60.250 1.00 10.27	В
ATOM	6779 N ARG 98	54.506 33.465 60.603 1.00 5.82	В
ATOM	6780 H ARG 98	53.764 34.047 60.861 1.00 0.00	В
ATOM	6781 CA ARG 98	55.767 34.068 60.387 1.00 5.82	В
		55.546 35.551 60.188 1.00 5.98	В
MOTA MOTA		56.715 36.235 59.518 1.00 5.98	В
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MOTA	6784 CD ARG 98		В
MOTA	6785 NE ARG 98	- 111 1 1111 1111	В
MOTA	6786 HE ARG 98		В
MOTA	6787 CZ ARG 98	57.561 39.697 60.545 1.00 5.98	В
ATOM	6788 NH1 ARG 98	57.812 39.670 61.859 1.00 5.98	В
MOTA	6789 HH11 ARG 98	58.294 38.883 62.254 1.00 0.00	В
MOTA	6790 HH12 ARG 98	57.528 40.424 62.443 1.00 0.00	В
MOTA	6791 NH2 ARG 98	57.494 40.858 59.913 1.00 5.98	В
ATOM	6792 HH21 ARG 98	58.325 41.264 59.530 1.00 0.00	В
MOTA	6793 HH22 ARG 98	56.603 41.279 59.718 1.00 0.00	В
ATOM	6794 C ARG 98	56.943 33.861 61.405 1.00 5.82	В
ATOM	6795 O ARG 98	56.787 33.735 62.655 1.00 5.98	В
ATOM	6796 N SER 99	58.131 33.862 60.781 1.00 29.71	В
MOTA	6797 H SER 99	58.110 33.956 59.798 1.00 0.00	В
MOTA	6798 CA SER 99	59.427 33.758 61.389 1.00 29.71	В
ATOM	6799 CB SER 99	59.934 35.138 61.728 1.00 37.92	В
MOTA	6800 OG SER 99	61.059 35.012 62.559 1.00 37.92	В
MOTA	6801 HG SER 99	61.839 34.812 62.020 1.00 0.00	В
MOTA MOTA	6802 C SER 99 6803 O SER 99	59.530 32.913 62.598 1.00 29.71	В
ATOM	6803 O SER 99 6804 N ASP 100	59.302 31.716 62.523 1.00 37.92 59.874 33.557 63.717 1.00 29.45	В
ATOM	6805 H ASP 100	60.014 34.523 63.778 1.00 0.00	B B
ATOM	6806 CA ASP 100	60.080 32.887 65.004 1.00 29.45	В
ATOM	6807 CB ASP 100	61.350 33.533 65.727 1.00 35.57	В
ATOM	6808 CG ASP 100	62.288 34.443 64.781 1.00 35.57	В
ATOM	6809 OD1 ASP 100	63.331 33.924 64.243 1.00 35.57	В
ATOM	6810 OD2 ASP 100	61.997 35.684 64.643 1.00 35.57	В
ATOM	6811 C ASP 100	58.823 32.761 65.986 1.00 29.45	В
ATOM	6812 O ASP 100	58.959 32.758 67.251 1.00 35.57	В
ATOM	6813 N GLY 101	57.640 32.620 65.341 1.00 19.85	В
ATOM	6814 H GLY 101	57.670 32.618 64.371 1.00 0.00	В
ATOM	6815 CA GLY 101	56.302 32.468 65.945 1.00 19.85	В
ATOM	6816 C GLY 101	55.544 33.755 66.304 1.00 19.85	В
ATOM	6817 O GLY 101	54.949 33.843 67.363 1.00 21.58	В
ATOM	6818 N ASP 102	55.493 34.753 65.434 1.00 6.62	В
ATOM	6819 H ASP 102	55.878 34.659 64.538 1.00 0.00	В
ATOM	6820 CA ASP 102	54.862 35.993 65.856 1.00 6.62	В
ATOM	6821 CB ASP 102	55.925 37.031 66.208 1.00 19.71	В
ATOM	6822 CG ASP 102	56.656 37.612 64.962 1.00 19.71	В
ATOM	6823 OD1 ASP 102	56.363 37.203 63.810 1.00 19.71	В
ATOM	6824 OD2 ASP 102	57.543 38.487 65.164 1.00 19.71	В
ATOM	6825 C ASP 102	53.828 36.679 65.006 1.00 6.62	в
ATOM	6826 O ASP 102	53.572 37.872 65.191 1.00 19.71	В
ATOM	6827 N SER 103	53.250 35.941 64.076 1.00 7.99	В
MOTA	6828 H SER 103	53.554 35.016 63.943 1.00 0.00	В
MOTA	6829 CA SER 103	52.173 36.447 63.258 1.00 7.99	В

ATOM ATOM ATOM ATOM ATOM	6831 OG SER 103 6832 HG SER 103 6833 C SER 103	53.887 37.942 62.577 1.00 16.49 54.346 38.302 61.813 1.00 0.00	8 8 8 8
ATOM ATOM ATOM ATOM	6836 H TRP 104 6837 CA TRP 104 6838 CB TRP 104		B B B B B
ATOM ATOM ATOM ATOM	6841 CE2 TRP 104 6842 CE3 TRP 104 6843 CD1 TRP 104	1:00 0:00	8 8 8 8 8
ATOM ATOM ATOM ATOM	6846 CZ2 TRP 104 6847 CZ3 TRP 104	52.180 32.796 66.623 1.00 0.00 51.587 30.035 66.279 1.00 8.99 50.158 28.849 64.732 1.00 8.99 51.054 28.865 65.798 1.00 8.99	B B B B
ATOM ATOM ATOM ATOM	6850 O TRP 104 6851 N GLY 105 6852 H GLY 105 6853 CA GLY 105 6854 C GLY 105	47.882 33.311 60.567 1.00 9.91 48.021 32.408 60.915 1.00 0.00 46.833 33.567 59.593 1.00 9.91 45.573 33.154 60.320 1.00 9.91	B 3 3 B 8
ATOM ATOM ATOM ATOM ATOM	6855 O GLY 105 6856 N GLN 106 6857 H GLN 106 6858 CA GLN 106 6859 CB GLN 106 6860 CG GLN 106	44.381 33.468 59.804 1.00 2.13 E 44.345 33.977 58.965 1.00 0.00 E 43.137 33.047 60.470 1.00 2.13 41.862 33.475 59.740 1.00 31.71	B B B B
ATOM ATOM ATOM ATOM ATOM	6861 CD GLN 106 6862 OE1 GLN 106 6863 NE2 GLN 106	40.717 32.383 59.859 1.00 31.71 39.618 32.638 60.977 1.00 31.71 39.937 32.846 62.167 1.00 31.71 38.328 32.591 60.564 1.00 31.71 37.615 32.391 61.214 1.00 0.00 38.154 32.755 59.614 1.00 0.00	BBBBBB
ATOM ATOM ATOM ATOM ATOM	6866 C GLN 106 6867 O GLN 106 6868 N GLY 107 6869 H GLY 107	43.123 31.543 60.492 1.00 2.13 E 42.534 30.939 61.372 1.00 31.71 43.788 30.969 59.503 1.00 6.42 E 44.230 31.524 58.825 1.00 0.00 E	B B
ATOM ATOM ATOM ATOM ATOM	6871 C GLY 107 6872 O GLY 107 6873 N THR 108 6874 H THR 108 6875 CA THR 108	42.912 29.081 58.318 1.00 6.42 B 41.975 29.827 57.990 1.00 17.26 B 43.155 27.890 57.759 1.00 2.31 B 43.933 27.375 58.050 1.00 0.00 B	; 3 ;
ATOM ATOM ATOM ATOM ATOM	6876 CB THR 108 6877 OG1 THR 108 6878 HG1 THR 108 6879 CG2 THR 108 6880 C THR 108	40 505 50 440 50 40 40	B B B B
MOTA MOTA MOTA	6881 O THR 108 6882 N LEU 109 6883 H LEU 109 6884 CA LEU 109 6885 CB LEU 109	42.619 25.186 57.727 1.00 8.00 B 40.484 25.779 57.207 1.00 30.96 B 39.879 26.457 56.841 1.00 0.00 B	8 8 B

ATOM	6886 CG LEU 109	37.900 23.814 59.366 1.00 2.00	D
		37.900 23.014 59.300 1.00 2.00	В
ATOM		36.408 23.971 59.316 1.00 2.00	В
ATOM		38.298 22.304 59.272 1.00 2.00	В
ATOM		39.859 23.640 56.460 1.00 30.96	В
ATOM		39.304 24.044 55.441 1.00 2.00	В
MOTA		40.497 22.483 56.537 1.00 5.13	В
ATOM		40.964 22.245 57.354 1.00 0.00	В
ATOM		40.517 21.544 55.431 1.00 5.13	В
ATOM		41.933 21.122 55.016 1.00 9.78	В
ATOM	6895 CG1 VAL 110	41.849 19.919 54.150 1.00 9.78	В
ATOM	6896 CG2 VAL 110	42.606 22.213 54.244 1.00 9.78	В
ATOM	6897 C VAL 110	39.828 20.312 55.939 1.00 5.13	в
ATOM	6898 O VAL 110	40.399 19.548 56.731 1.00 9.78	B
ATOM	6899 N THR 111	38.599 20.114 55.498 1.00 26.68	B
ATOM		38.199 20.759 54.882 1.00 0.00	В
ATOM		37.850 18.946 55.921 1.00 26.68	В
ATOM		36.377 19.388 56.386 1.00 5.07	В
ATOM		35.378 18.505 55.879 1.00 5.07	
ATOM		35.792 17.693 55.584 1.00 0.00	В
ATOM		36.064 20.830 55.912 1.00 5.07	В
ATOM	6906 C THR 111	37.950 17.939 54.751 1.00 26.68	В
ATOM			В
ATOM		37.702 18.263 53.569 1.00 5.07	В
		38.398 16.733 55.081 1.00 6.87	В
MOTA		38.596 16.511 56.016 1.00 0.00	В
MOTA		38.548 15.733 54.055 1.00 6.87	В
MOTA		39.735 14.765 54.326 1.00 24.37	В
ATOM		39.607 13.540 53.466 1.00 24.37	В
MOTA		41.040 15.444 54.059 1.00 24.37	В
MOTA	6914 C VAL 112	37.315 14.874 54.019 1.00 6.87	В
MOTA	6915 O VAL 112	37.121 14.061 54.944 1.00 24.37	В
ATOM	6916 N SER 113	36.497 15.020 52.981 1.00 21.86	В
ATOM	6917 H SER 113	36.663 15.689 52.301 1.00 0.00	В
MOTA	6918 CA SER 113	35.332 14.146 52.887 1.00 21.86	В
ATOM	6919 CB SER 113	34.112 14.698 53.637 1.00 24.81	В
ATOM	6920 OG SER 113	32.974 13.876 53.391 1.00 24.81	В
ATOM	6921 HG SER 113	32.294 14.015 54.067 1.00 0.00	В
MOTA	6922 C SER 113	34.869 13.791 51.508 1.00 21.86	В
ATOM	6923 O SER 113	35.093 14.529 50.538 1.00 24.81	В
MOTA	6924 N SER 114	34.173 12.657 51.465 1.00 22.06	В
MOTA	6925 H SER 114	34.047 12.157 52.301 1.00 0.00	В
MOTA	6926 CA SER 114	33.599 12.124 50.244 1.00 22.06	В
MOTA	6927 CB SER 114	33.462 10.606 50.377 1.00 36.44	В
MOTA	6928 OG SER 114	33.545 10.269 51.748 1.00 36.44	В
MOTA	6929 HG SER 114	34.439 10.416 52.067 1.00 0.00	В
MOTA	6930 C SER 114	32.233 12.809 50.028 1.00 22.06	В
MOTA	6931 O SER 114	31.537 12.470 49.097 1.00 36.44	В
MOTA	6932 N ALA 115	31.886 13.870 50.801 1.00 36.89	В
MOTA	6933 H ALA 115	32.533 13.995 51.453 1.00 0.00	В
	6934 CA ALA 115	30.602 14.642 50.740 1.00 36.89	В
MOTA	6935 CB ALA 115	30.185 15.011 52.126 1.00 7.04	
MOTA	6936 C ALA 115	30.623 15.914 49.894 1.00 36.89	В
ATOM	6937 O ALA 115	31.690 16.391 49.474 1.00 7.04	В
MOTA	6938 N SER 116	29.451 16.500 49.674 1.00 7.04	В
	6939 H SER 116	28.636 16.130 50.064 1.00 0.00	В
	6940 CA SER 116	29.403 17.686 48.838 1.00 14.39	В
		28.402 17.484 47.694 1.00 24.13	В
		20.402 17.404 47.094 1.00 24.13	В
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ATOM	6942	OG SER 116	27.295 16.695 48.092 1.00 24.13	В
ATOM	-	HG SER 116	26.751 17.221 48.692 1.00 0.00	В
			29.164 19.037 49.465 1.00 14.39	В
MOTA	6944			_
ATOM	6945	O SER 116	28.369 19.210 50.377 1.00 24.13	В
MOTA	6946	N THR 117	29.869 20.017 48.924 1.00 20.82	В
MOTA	6947	H THR 117	30.504 19.802 48.206 1.00 0.00	В
MOTA	6948	CA THR 117	29.715 21.389 49.362 1.00 20.82	В
ATOM	6949	CB THR 117	30.536 22.330 48.502 1.00 26.59	В
ATOM		OG1 THR 117	31.872 21.819 48.394 1.00 26.59	В
ATOM	6951	HG1 THR 117	31.926 21.204 47.663 1.00 0.00	В
ATOM			30.539 23.716 49.103 1.00 26.59	В
ATOM	6953	C THR 117	28.303 21.847 49.210 1.00 20.82	В
MOTA	6954	O THR 117	27.696 21.625 48.179 1.00 26.59	В
ATOM	6955	N LYS 118	27.764 22.461 50.242 1.00 9.14	В
MOTA	6956	H LYS 118	28.250 22.538 51.084 1.00 0.00	В
MOTA	6957	CA LYS 118	26.426 23.035 50.152 1.00 9.14	В
ATOM	6958	CB LYS 118	25.328 22.169 50.717 1.00 29.71	В
ATOM	6959	CG LYS 118	23.999 22.641 50.139 1.00 29.71	В
ATOM		CD LYS 118	22.816 22.337 51.036 1.00 29.71	В
ATOM	6961	CE LYS 118	21.534 22.193 50.227 1.00 29.71	B
ATOM		NZ LYS 118	21.115 23.483 49.631 1.00 29.71	В
ATOM			21.571 24.283 50.125 1.00 0.00	В
				-
ATOM		HZ2 LYS 118	20.080 23.561 49.739 1.00 0.00	В
ATOM		HZ3 LYS 118	21.342 23.489 48.622 1.00 0.00	_B
ATOM	6966	C LYS 118	26.422 24.295 50.909 1.00 9.14	В
ATOM	6967	O LYS 118	27.061 24.398 51.932 1.00 29.71	В
MOTA	6968	N GLY 119	25.716 25.264 50.379 1.00 18.88	В
MOTA	6969	H GLY 119	25.233 25.122 49.542 1.00 0.00	В
MOTA	6970	CA GLY 119	25.644 26.543 51.017 1.00 18.88	В
MOTA	6971		24.431 26.549 51.903 1.00 18.88	В
ATOM		O GLY 119	23.439 25.882 51.614 1.00 29.50	В
ATOM		N PRO 120	24.485 27.317 52.996 1.00 17.84	В
ATOM		CD PRO 120	25.629 28.170 53.386 1.00 2.08	В
ATOM		CA PRO 120	23.396 27.440 53.953 1.00 17.84	В
ATOM	6976			
			24.081 28.052 55.128 1.00 2.08	В
MOTA		CG PRO 120	25.018 29.047 54.436 1.00 2.08	В
MOTA	6978	C PRO 120	22.328 28.401 53.477 1.00 17.84	В
ATOM	6979	O PRO 120	22.615 29.283 52.726 1.00 2.08	В
MOTA	6980	N SER 121	21.093 28.224 53.926 1.00 18.38	В
ATOM	6981	H SER 121	20.882 27.434 54.452 1.00 0.00	В
			20.057 29.208 53.637 1.00 18.38	В
MOTA		CB SER 121	18.680 28.608 53.711 1.00 20.74	В
ATOM	6984	OG SER 121	18.681 27.341 53.099 1.00 20.74	В
ATOM	6985		17.915 27.295 52.501 1.00 0.00	В
MOTA	6986		20.246 30.084 54.857 1.00 18.38	В
ATOM	6987		20.732 29.594 55.873 1.00 20.74	В
ATOM	6988		19.904 31.363 54.788 1.00 20.55	В
ATOM		H VAL 122	19.545 31.728 53.950 1.00 0.00	В
		CA VAL 122	20.083 32.203 55.962 1.00 0.00	
ATOM		CB VAL 122		В
			21.110 33.320 55.697 1.00 2.00	В
		CG1 VAL 122	21.447 34.021 56.965 1.00 2.00	В
			22.353 32.756 55.140 1.00 2.00	В
		C VAL 122	18.757 32.817 56.401 1.00 20.55	В
	6995		18.157 33.538 55.640 1.00 2.00	В
ATOM	6996	•	18.279 32.562 57.612 1.00 2.00	В
ATOM	6997	H PHE 123	18.740 31.995 58.242 1.00 0.00	В

ATOM	6998 CA PHE 123	17.008 33.177 57.982 1.00 2.00 B
ATOM		
ATOM	6999 CB PHE 123 7000 CG PHE 123	16.037 32.092 58.427 1.00 7.76 B
MOTA	7001 CD1 PHE 123	
MOTA	7002 CD2 PHE 123	
MOTA	7003 CE1 PHE 123	
ATOM	7004 CE2 PHE 123	
MOTA	7005 CZ PHE 123	15.284 29.409 55.184 1.00 7.76 B
ATOM	7006 C PHE 123	17.083 34.295 58.994 1.00 2.00 B
MOTA	7007 O PHE 123	17.980 34.329 59.808 1.00 7.76 B
ATOM	7008 N PRO 124	16.152 35.250 58.935 1.00 2.00 B
MOTA	7009 CD PRO 124	—
MOTA	7010 CA PRO 124	16.203 36.338 59.909 1.00 2.00 B
MOTA	7011 CB PRO 124	15.226 37.364 59.359 1.00 15.53 B
MOTA	7012 CG PRO 124	14.843 36.854 58.012 1.00 15.53 B
MOTA	7013 C PRO 124	15.711 35.792 61.209 1.00 2.00 B
MOTA	7014 O PRO 124	15.125 34.722 61.247 1.00 15.53 B
MOTA	7015 N LEU 125 7016 H LEU 125	15.911 36.520 62.289 1.00 9.93 B
ATOM		16.377 37.373 62.220 1.00 0.00 B
MOTA		15.434 36.043 63.577 1.00 9.93 B
MOTA MOTA	7018 CB LEU 125 7019 CG LEU 125	16.544 35.194 64.215 1.00 10.76 B
ATOM		16.355 33.895 65.023 1.00 10.76 B
ATOM	7020 CD1 LEU 125 7021 CD2 LEU 125	16.114 32.666 64.169 1.00 10.76 B 17.622 33.642 65.783 1.00 10.76 B
ATOM	7021 CD2 LEU 125	
ATOM	7022 C LEU 125 7023 O LEU 125	15.027 37.230 64.463 1.00 9.93 B 15.885 37.862 65.003 1.00 10.76 B
ATOM	7023 O LEO 125 7024 N GLY 126	
ATOM	7025 H GLY 126	10 100 00 00 100 100 100 100 100 100 10
ATOM	7026 CA GLY 126	40 000 00 000 000
ATOM	7027 C GLY 126	
ATOM	7028 O GLY 126	13.582 39.931 65.931 1.00 13.86 B 13.513 40.890 65.209 1.00 13.85 B
ATOM	7029 N THR 127	14.064 40.076 67.172 1.00 44.28 B
ATOM	7030 H THR 127	14.113 39.314 67.791 1.00 0.00 B
ATOM	7031 CA THR 127	14.528 41.424 67.611 1.00 44.28 B
MOTA	7032 CB THR 127	13.463 42.374 67.231 1.00 27.14 B
MOTA	7033 OG1 THR 127	12.292 41.607 66.878 1.00 27.14 B
MOTA	7034 HG1 THR 127	11.523 42.173 66.968 1.00 0.00 B
MOTA	7035 CG2 THR 127	13.924 43.208 66.049 1.00 27.14 B
ATOM	7036 C THR 127	14.985 41.673 69.094 1.00 44.28 B
ATOM	7037 O THR 127	14.729 40.786 69.932 1.00 27.14 B
ATOM	7038 N ALA 128	15.595 42.862 69.396 1.00 22.09 B
	7039 H ALA 128	15.633 43.523 68.681 1.00 0.00 B
ATOM	7040 CA ALA 128	16.222 43.303 70.731 1.00 22.09 B
ATOM	7041 CB ALA 128	15.238 43.606 71.782 1.00 2.00 B
ATOM	7042 C ALA 128	17.208 42.244 71.221 1.00 22.09 B
ATOM	7043 O ALA 128	18.150 42.496 71.919 1.00 2.00 B
MOTA	7044 N ALA 129	16.887 41.029 70.877 1.00 4.06 B
ATOM	7045 H ALA 129	16.035 40.880 70.541 1.00 0.00 B
ATOM	7046 CA ALA 129	17.727 39.902 70.997 1.00 4.06 B
MOTA	7047 CB ALA 129	17.145 38.822 71.852 1.00 2.00 B
MOTA	7048 C ALA 129	17.347 39.643 69.540 1.00 4.06 B
MOTA	7049 O ALA 129	16.182 39.602 69.230 1.00 2.00 B
MOTA MOTA	7050 N LEU 130	18.278 39.549 68.616 1.00 2.00 B
ATOM	7051 H LEU 130 7052 CA LEU 130	19.220 39.691 68.816 1.00 0.00 B
ATOM		17.859 39.205 67.271 1.00 2.00 B
NI OIVI	7053 CB LEU 130	17.439 40.445 66.469 1.00 3.28 B

ATOM	7054 CG LEU 130	18.265 41.738 66.481 1.00 3.28	В
ATOM			В
ATOM			В
ATOM		18.979 38.397 66.589 1.00 2.00	_
ATOM			В
		19.986 38.055 67.229 1.00 3.28	В
ATOM ATOM		18.798 38.057 65.307 1.00 2.00	В
ATOM		17.977 38.317 64.841 1.00 0.00	В
ATOM		19.821 37.302 64.645 1.00 2.00 19.509 36.607 63.365 1.00 2.00	В
ATOM	7063 O GLY 131	18.529 36.900 62.732 1.00 26.58	B B
ATOM	7064 N CYS 132	20.391 35.677 62.984 1.00 2.00	В
ATOM	7065 H CYS 132	21.159 35.518 63.583 1.00 0.00	В
ATOM	7066 CA CYS 132	20.294 34.899 61.761 1.00 2.00	В
ATOM	7067 C CYS 132	20.489 33.431 62.021 1.00 2.00	В
ATOM	7068 O CYS 132	21.357 32.992 62.778 1.00 18.41	В
ATOM	7069 CB CYS 132	21.323 35.388 60.736 1.00 18.41	В
ATOM	7070 SG CYS 132	20.972 37.099 60.232 1.00 18.41	B
ATOM	7071 N LEU 133	19.634 32.653 61.393 1.00 7.85	В
ATOM	7072 H LEU 133	18.928 33.050 60.842 1.00 0.00	В
ATOM	7073 CA LEU 133	19.705 31.226 61.482 1.00 7.85	В
ATOM	7074 CB LEU 133	18.313 30.664 61.597 1.00 2.00	В
MOTA	7075 CG LEU 133	18.389 29.164 61.732 1.00 2.00	В
MOTA	7076 CD1 LEU 133	18.977 28.795 63.099 1.00 2.00	В
ATOM	7077 CD2 LEU 133	16.985 28.615 61.512 1.00 2.00	В
ATOM	7078 C LEU 133	20.367 30.817 60.162 1.00 7.85	В
ATOM	7079 O LEU 133	19.844 31.043 59.087 1.00 2.00	В
ATOM	7080 N VAL 134	21.557 30.265 60.259 1.00 2.00	В
ATOM	7081 H VAL 134	21.947 30.149 61.154 1.00 0.00	В
MOTA	7082 CA VAL 134	22.305 29.836 59.104 1.00 2.00	В
MOTA	7083 CB VAL 134	23.797 30.195 59.304 1.00 7.34	В
ATOM	7084 CG1 VAL 134	24.649 29.821 58.118 1.00 7.34	В
ATOM ATOM	7085 CG2 VAL 134 7086 C VAL 134	23.897 31.676 59.578 1.00 7.34	В
ATOM	7087 O VAL 134	22.066 28.340 59.081 1.00 2.00 22.635 27.609 59.850 1.00 7.34	В
ATOM	7088 N LYS 135		В
ATOM	7089 H LYS 135	21.259 27.897 58.147 1.00 5.53 20.912 28.542 57.491 1.00 0.00	B B
ATOM	7090 CA LYS 135	20.875 26.510 58.046 1.00 5.53	В
ATOM	7091 CB LYS 135	19.338 26.413 58.035 1.00 13.42	В
ATOM	7092 CG LYS 135	18.796 25.251 58.759 1.00 13.42	В
MOTA	7093 CD LYS 135	17.446 24.795 58.291 1.00 13.42	В
ATOM	7094 CE LYS 135	17.167 23.368 58.897 1.00 13.42	B
ATOM	7095 NZ LYS 135	16.177 22.405 58.199 1.00 13.42	B
ATOM	7096 HZ1 LYS 135	16.647 21.478 58.146 1.00 0.00	В
MOTA	7097 HZ2 LYS 135	15.994 22.759 57.237 1.00 0.00	В
ATOM	7098 HZ3 LYS 135	15.297 22.341 58.731 1.00 0.00	В
ATOM	7099 C LYS 135	21.379 25.693 56.873 1.00 5.53	В
MOTA	7100 O LYS 135	21.537 26.190 55.735 1.00 13.42	В
MOTA	7101 N ASP 136	21.547 24.396 57.183 1.00 8.01	В
ATOM ATOM	7102 H ASP 136	21.374 24.141 58.110 1.00 0.00	В
ATOM	7103 CA ASP 136 7104 CB ASP 136	21.963 23.340 56.237 1.00 8.01	В
ATOM	7104 CB ASP 136 7105 CG ASP 136	20.752 22.843 55.454 1.00 5.21	В
ATOM	7106 OD1 ASP 136	19.597 22.389 56.342 1.00 5.21	В
ATOM	7107 OD2 ASP 136	19.786 22.093 57.528 1.00 5.21 18.471 22.316 55.835 1.00 5.21	В
ATOM	7108 C ASP 136	23.111 23.590 55.252 1.00 8.01	В
ATOM	7109 O ASP 136	22.913 23.807 54.052 1.00 5.21	B B
		04.00£ 1,00 J.Z1	u

АТОМ	7110 N TYR 137	24.329 23.513 55.774 1.00 20.27	B B
MOTA MOTA	7111 H TYR 137 7112 CA TYR 137	24.437 23.318 56.724 1.00 0.00 25.500 23.716 54.955 1.00 20.27	В
ATOM	7113 CB TYR 137	26.008 25.119 55.107 1.00 8.77	В
ATOM	7114 CG TYR 137	26.459 25.355 56.509 1.00 8.77	В
ATOM	7115 CD1 TYR 137	27.789 25.271 56.863 1.00 8.77	В
MOTA	7116 CE1 TYR 137	28.178 25.502 58.150 1.00 8.77	В
ATOM	7117 CD2 TYR 137	25.536 25.676 57.478 1.00 8.77	В
MOTA	7118 CE2 TYR 137	25.902 25.907 58.736 1.00 8.77 27.220 25.823 59.085 1.00 8.77	B B
ATOM	7119 CZ TYR 137 7120 OH TYR 137	27.220 25.823 59.085 1.00 8.77 27.540 26.032 60.401 1.00 8.77	В
MOTA MOTA	7120 OH TYR 137 7121 HH TYR 137	26.886 25.589 60.941 1.00 0.00	В
ATOM	7122 C TYR 137	26.590 22.786 55.401 1.00 20.27	В
ATOM	7123 O TYR 137	26.601 22.343 56.526 1.00 8.77	В
ATOM	7124 N PHE 138	27.530 22.558 54.497 1.00 2.00	В
MOTA	7125 H PHE 138	27.452 23.014 53.628 1.00 0.00	В
ATOM	7126 CA PHE 138	28.646 21.691 54.724 1.00 2.00	В
MOTA	7127 CB PHE 138	28.230 20.269 54.431 1.00 9.84	B B
MOTA	7128 CG PHE 138 7129 CD1 PHE 138	29.303 19.257 54.676 1.00 9.84 30.344 19.084 53.746 1.00 9.84	В
ATOM ATOM	7129 CD1 PHE 138 7130 CD2 PHE 138	29.279 18.466 55.829 1.00 9.84	В
ATOM	7131 CE1 PHE 138	31.359 18.128 53.965 1.00 9.84	B
ATOM	7132 CE2 PHE 138	30.253 17.528 56.071 1.00 9.84	В
ATOM	7133 CZ PHE 138	31.312 17.339 55.149 1.00 9.84	В
MOTA	7134 C PHE 138	29.724 22.091 53.759 1.00 2.00	В
MOTA	7135 O PHE 138	29.453 22.592 52.677 1.00 9.84	В
ATOM	7136 N PRO 139	30.969 21.985 54.178 1.00 8.21 32.199 22.288 53.426 1.00 3.51	B B
MOTA MOTA	7137 CD PRO 139 7138 CA PRO 139	31.269 21.526 55.513 1.00 8.21	В
ATOM	7139 CB PRO 139	32.604 20.803 55.331 1.00 3.51	В
ATOM	7140 CG PRO 139	33.299 21.643 54.277 1.00 3.51	В
ATOM	7141 C PRO 139	31.399 22.869 56.252 1.00 8.21	В
ATOM	7142 O PRO 139	30.724 23.845 55.901 1.00 3.51	В
MOTA	7143 N GLU 140	32.281 22.913 57.239 1.00 7.64	В
MOTA	7144 H GLU 140	32.814 22.120 57.445 1.00 0.00 32.486 24.108 58.028 1.00 7.64	B B
ATOM	7145 CA GLU 140 7146 CB GLU 140	32.834 23.721 59.466 1.00 2.74	В
ATOM	7147 CG GLU 140	31.685 23.156 60.290 1.00 2.74	В
ATOM	7148 CD GLU 140	31.959 23.311 61.780 1.00 2.74	В
MOTA	7149 OE1 GLU 140	31.915 22.297 62.515 1.00 2.74	В
MOTA	7150 OE2 GLU 140	32.228 24.458 62.204 1.00 2.74	B
ATOM	7151 C GLU 140	33.602 24.962 57.465 1.00 7.64	В
MOTA	7152 O GLU 140	34.419 24.522 56.678 1.00 2.74 33.673 26.202 57.894 1.00 2.05	В
MOTA MOTA	7153 N PRO 141 7154 CD PRO 141	34.866 27.019 57.635 1.00 5.16	B B
ATOM	7155 CA PRO 141	32.831 26.870 58.825 1.00 2.05	В
MOTA	7156 CB PRO 141	33.834 27.502 59.746 1.00 5.16	В
MOTA	7157 CG PRO 141	34.894 27.929 58.863 1.00 5.16	В
MOTA	7158 C PRO 141	32.053 27.923 58.106 1.00 2.05	В
MOTA	7159 O PRO 141	32.410 28.346 57.009 1.00 5.16	В
MOTA MOTA	7160 N VAL 142 7161 H VAL 142	30.990 28.385 58.761 1.00 6.80 30.770 27.969 59.619 1.00 0.00	B B
ATOM	7161 H VAL 142 7162 CA VAL 142	30.146 29.466 58.277 1.00 6.80	В
ATOM	7163 CB VAL 142	28.679 29.217 58.620 1.00 2.00	В
ATOM	7164 CG1 VAL 142	28.080 30.421 59.275 1.00 2.00	В
MOTA	7165 CG2 VAL 142	27.901 28.908 57.415 1.00 2.00	В

ATOM	7166 C VAL 142	30.682 30.589 59.170 1.00 6.80 B
ATOM		
ATOM	7168 N THR 143	30.909 31.760 58.622 1.00 14.83 B
ATOM	7169 H THR 143	30.779 31.918 57.677 1.00 0.00 B
ATOM	7170 CA THR 143	31,363 32,826 59,445 1,00 14,83 B
ATOM	7171 CB THR 143	32.603 33.433 58.888 1.00 11.78 B
ATOM	7172 OG1 THR 143	33.381 33.956 59.966 1.00 11.78 B
ATOM	7173 HG1 THR 143	33.991 34.606 59.625 1.00 0.00 B
ATOM	7174 CG2 THR • 143	32.264 34.518 57.925 1.00 11.78 B
ATOM	7175 C THR 143	30.212 33.819 59.514 1.00 14.83 B
ATOM	7176 O THR 143	29.356 33.873 58.628 1.00 11.78 B
ATOM	7177 N VAL 144	30.152 34.592 60.591 1.00 2.00 B
ATOM	7178 H VAL 144	30.853 34,530 61.280 1.00 0.00 B
ATOM	7179 CA VAL 144	
ATOM		27.948 34.940 61.571 1.00 4.75 B
ATOM	7181 CG1 VAL 144	
ATOM	7182 CG2 VAL 144	27.482 33.645 61.004 1.00 4.75 B
MOTA	7183 C VAL 144	29.466 36.852 61.295 1.00 2.00 B
ATOM	7184 O VAL 144	29.986 36.955 62.399 1.00 4.75 B
ATOM	7185 N SER 145	29.188 37.890 60.529 1.00 10.89 B
ATOM	7186 H SER 145	28.792 37.753 59.650 1.00 0.00 B
ATOM		
ATOM		29.460 39.229 60.946 1.00 10.89 B
		30.297 39.875 59.915 1,00 2.88 B
ATOM	7189 OG SER 145	31.139 40.695 60.624 1.00 2.88 B
ATOM	7190 HG SER 145	31.074 40.510 61.558 1.00 0.00 B
ATOM	7191 C SER 145	28.198 40.029 61.082 1.00 10.89 B
ATOM	7192 O SER 145	27.189 39.684 60.464 1.00 2.88 B
ATOM	7193 N TRP 146	28.258 41.092 61.889 1.00 4.85 B
MOTA	7194 H TRP 146	29.073 41.256 62.381 1.00 0.00 B
ATOM	7195 CA TRP 146	27.107 42.016 62.054 1.00 4.85 B
ATOM	7196 CB TRP 146	26.523 41.965 63.472 1.00 3.78 B
ATOM	7197 CG TRP 146	
ATOM	7198 CD2 TRP 146	
ATOM		
		24.131 39.159 63.900 1.00 3.78 B
ATOM	7200 CE3 TRP 146	23.374 41.194 62.850 1.00 3.78 B
ATOM	7201 CD1 TRP 146	26.245 39.648 64.373 1.00 3.78 B
ATOM	7202 NE1 TRP 146	25.290 38.689 64.453 1.00 3.78 B
ATOM	7203 HE1 TRP 146	25.396 37.791 64.849 1.00 0.00 B
ATOM	7204 CZ2 TRP 146	22.866 38.535 63.751 1.00 3.78 B
MOTA	7205 CZ3 TRP 146	22.116 40.582 62.698 1.00 3.78 B
ATOM	7206 CH2 TRP 146	21.882 39.258 63.149 1.00 3.78 B
MOTA	7207 C TRP 146	27.445 43.478 61.687 1.00 4.85 B
ATOM	7208 O TRP 146	***
ATOM	7209 N ASN 147	
ATOM	7210 H ASN 147	
		26.065 43.410 60.259 1.00 0.00 B
MOTA	7211 CA ASN 147	26.901 45.354 60.145 1.00 2.00 B
ATOM	7212 CB ASN 147	26.448 46.407 61.154 1.00 4.90 B
ATOM	7213 CG ASN 147	24.933 46.495 61.231 1.00 4.90 B
ATOM	7214 OD1 ASN 147	24.253 46.017 60.360 1.00 4.90 B
MOTA	7215 ND2 ASN 147	24.415 47.071 62.262 1.00 4.90 B
ATOM	7216 HD21 ASN 147	24.941 47.729 62.747 1.00 0.00 B
	7217 HD22 ASN 147	23.504 46.817 62.516 1.00 0.00 B
	7218 C ASN 147	28.318 45.564 59.728 1.00 2.00 B
ATOM	7219 O ASN 147	28.959 46.562 60.025 1.00 4.90 B
ATOM	7220 N SER 148	
ATOM	7221 H SER 148	
		28.225 43.780 58.872 1.00 0.00 B

ATOM	7222 CA SER 148	30.156 44.539 58.537 1.00 12.28	В
ATOM	7223 CB SER 148	30.281 45.634 57.515 1.00 25.76	В
ATOM	7224 OG SER 148	29.241 45.503 56.568 1.00 25.76	E
ATOM	7225 HG SER 148	28.519 44.986 56.922 1.00 0.00	В
ATOM	7226 C SER 148	31.203 44.664 59.625 1.00 12.28	В
ATOM	7227 O SER 148	32.284 45.205 59.411 1.00 25.76	В
ATOM	7228 N GLY 149	30.881 44.164 60.812 1.00 3.90	В
ATOM	7229 H GLY 149	30.002 43.760 60.973 1.00 0.00	В
ATOM	7230 CA GLY 149	31.861 44.194 61.874 1.00 3.90	В
ATOM	7231 C GLY 149	31.893 45.410 62.744 1.00 3.90	В
ATOM	7232 O GLY 149	32.712 45.509 63.663 1.00 23.33	В
ATOM	7233 N ALA 150	31.021 46.354 62.460 1.00 21.37	В
ATOM	7234 H ALA 150	30.398 46.250 61.707 1.00 0.00	В
ATOM	7235 CA ALA 150	30.996 47.556 63.267 1.00 21.37	В
ATOM	7236 CB ALA 150	30.349 48.713 62.473 1.00 14.83	В
ATOM	7237 C ALA 150	30.193 47.245 64.521 1.00 21.37	В
ATOM	7238 O ALA 150	30.107 48.068 65.431 1.00 14.83	В
ATOM	7239 N LEU 151	29.583 46.063 64.539 1.00 10.58	В
ATOM	7240 H LEU 151	29.710 45.462 63.782 1.00 0.00	В
ATOM	7241 CA LEU 151	28.746 45.634 65.648 1.00 10.58	В
ATOM	7242 CB LEU 151	27.258 45.543 65.197 1.00 3.63	В
ATOM	7243 CG LEU 151	26.293 44.716 66.086 1.00 3.63	В
ATOM	7244 CD1 LEU 151	26.458 45.252 67.452 1.00 3.63	В
ATOM	7245 CD2 LEU 151	24.807 44.766 65.673 1.00 3.63	В
ATOM	7246 C LEU 151	29.276 44.286 66.120 1.00 10.58	В
ATOM	7247 O LEU 151	29.239 43.298 65.412 1.00 3.63	В
ATOM	7248 N THR 152	29.805 44.270 67.328 1.00 15.84	В
MOTA	7249 H THR 152	29.834 45.105 67.849 1.00 0.00	В
ATOM	7250 CA THR 152	30.354 43.041 67.896 1.00 15.84	В
ATOM	7251 CB THR 152	31.909 43.015 67.731 1.00 2.00	В
ATOM	7252 OG1 THR 152	32.522 43.985 68.579 1.00 2.00	В
ATOM	7253 HG1 THR 152	32.402 44.871 68.237 1.00 0.00	В
ATOM	7254 CG2 THR 152	32.268 43.347 66.286 1.00 2.00	В
ATOM	7255 C THR 152	29.948 42.906 69.350 1.00 15.84	В
ATOM	7256 O THR 152	29.829 41.811 69.875 1.00 2.00	В
MOTA	7257 N SER 153 7258 H SER 153	29.718 44.035 70.009 1.00 5.20	В
MOTA MOTA	7258 H SER 153 7259 CA SER 153	29.852 44.898 69.572 1.00 0.00	В
ATOM	7260 CB SER 153	29.289 43.970 71.380 1.00 5.20 29.186 45.358 71.981 1.00 4.01	В
ATOM	7261 OG SER 153	29.186 45.358 71.981 1.00 4.01 29.734 45.392 73.283 1.00 4.01	В
ATOM	7262 HG SER 153	29.931 46.299 73.543 1.00 0.00	B B
ATOM	7263 C SER 153	27.948 43.282 71.389 1.00 5.20	В
ATOM	7264 O SER 153	27.114 43.552 70.551 1.00 4.01	В
ATOM	7265 N GLY 154	27.780 42.377 72.343 1.00 9.71	В
ATOM	7266 H GLY 154	28.516 42.225 72.979 1.00 0.00	В
ATOM	7267 CA GLY 154	26.565 41.622 72.476 1.00 9.71	В
ATOM	7268 C GLY 154	26.349 40.476 71.490 1.00 9.71	В
ATOM	7269 O GLY 154	25.270 39.827 71.444 1.00 9.16	B
MOTA	7270 N VAL 155	27.363 40.171 70.700 1.00 2.00	В
ATOM	7271 H VAL 155	28.228 40.627 70.762 1.00 0.00	B
MOTA	7272 CA VAL 155	27.121 39.119 69.772 1.00 2.00	В
MOTA	7273 CB VAL 155	27.830 39.429 68.489 1.00 2.00	В
ATOM	7274 CG1 VAL 155	27.766 38.234 67.540 1.00 2.00	В
MOTA	7275 CG2 VAL 155	27.211 40.610 67.891 1.00 2.00	В
MOTA	7276 C VAL 155	27.474 37.709 70.254 1.00 2.00	В
ATOM	7277 O VAL 155	28.416 37.494 71.027 1.00 2.00	В

ATOM 7278 N HIS 156	20.00, 00,, 12	В
ATOM 7279 H HIS 156		В
ATOM 7280 CA HIS 156	26.969 35.362 70.162 1.00 2.14	В
ATOM 7281 CB HIS 156	26.028 34.808 71.202 1.00 7.91	В
ATOM 7282 CG HIS 156	26.251 35.364 72.550 1.00 7.91	В
ATOM 7283 CD2 HIS 156	25.385 35.691 73.527 1.00 7.91	В
ATOM 7284 ND1 HIS 156	27.494 35.735 72.986 1.00 7.91 28.332 35.618 72.501 1.00 0.00	B B
ATOM 7285 HD1 HIS 156		В
ATOM 7286 CE1 HIS 156	27.386 36.280 74.180 1.00 7.91 26.117 36.261 74.531 1.00 7.91	В
ATOM 7287 NE2 HIS 156	25.746 36.594 75.381 1.00 0.00	В
ATOM 7288 HE2 HIS 156 ATOM 7289 C HIS 156	26.745 34.541 68.930 1.00 2.14	В
	25.600 34.395 68.475 1.00 7.91	В
ATOM 7290 O HIS 156 ATOM 7291 N THR 157	27.817 34.051 68.315 1.00 4.68	В
ATOM 7292 H THR 157	28.732 34.278 68.585 1.00 0.00	В
ATOM 7293 CA THR 157		В
ATOM 7294 CB THR 157		В
ATOM 7295 OG1 THR 15		В
ATOM 7296 HG1 THR 15		·B
ATOM 7297 CG2 THR 157	28.955 34.858 65.852 1.00 2.00	В
ATOM 7298 C THR 157	27.941 31.837 67.752 1.00 4.68	В
ATOM 7299 O THR 157	29.007 31.606 68.260 1.00 2.00	В
ATOM 7300 N PHE 158	26.966 30.970 67.701 1.00 2.25	В
ATOM 7301 H PHE 158	26.121 31.252 67.305 1.00 0.00	B B
ATOM 7302 CA PHE 158		В
ATOM 7303 CB PHE 158 ATOM 7304 CG PHE 158		В
ATOM 7304 CG FILE 158		В
ATOM 7306 CD2 PHE 158		В
ATOM 7307 CE1 PHE 158		В
ATOM 7308 CE2 PHE 158		В
ATOM 7309 CZ PHE 158		В
ATOM 7310 C PHE 158	27.881 28.591 67.484 1.00 2.25	В
ATOM 7311 O PHE 158	28.109 28.639 66.300 1.00 14.53	В
ATOM 7312 N PRO 159	28.438 27.704 68.268 1.00 2.00 28.578 27.743 69.730 1.00 2.00	B B
ATOM 7313 CD PRO 159 ATOM 7314 CA PRO 159		В
ATOM 7314 CA PRO 159 ATOM 7315 CB PRO 159		В
ATOM 7316 CG PRO 159		В
ATOM 7317 C PRO 159	28.125 25.902 66.816 1.00 2.00	В
ATOM 7318 O PRO 159	26.945 25.909 67.125 1.00 2.00	В
ATOM 7319 N ALA 160	28.527 25.331 65.685 1.00 2.00	В
ATOM 7320 H ALA 160	29,475 25.344 65.437 1.00 0.00	В
ATOM 7321 CA ALA 160	27.562 24.716 64.810 1.00 2.00	В
ATOM 7322 CB ALA 160	28.124 24.544 63.442 1.00 14.12	В
ATOM 7323 C ALA 160	27.134 23.426 65.345 1.00 2.00 27.822 22.781 66.131 1.00 14.12	В
ATOM 7324 O ALA 160 ATOM 7325 N VAL 161	25.983 23.017 64.866 1.00 2.28	B B
ATOM 7326 H VAL 161	25.506 23.550 64.210 1.00 0.00	В
ATOM 7327 CA VAL 161	25.386 21.778 65.318 1.00 2.28	В
ATOM 7328 CB VAL 161	24.066 22.122 66.073 1.00 9.41	В
ATOM 7329 CG1 VAL 16	22.981 21.212 65.693 1.00 9.41	В
ATOM 7330 CG2 VAL 16		В
ATOM 7331 C VAL 161	25.201 20.949 64.088 1.00 2.28	В
ATOM 7332 O VAL 161	24.817 21.440 63.048 1.00 9.41	В
ATOM 7333 N LEU 162	25.529 19.682 64.217 1.00 27.66	В

ATOM	7334 H LEU 162	25.821 19.356 65.095 1.00 0.00	В
ATOM	7335 CA LEU 162	25,484 18,747 63,108 1,00 27,66	В
ATOM	7336 CB LEU 162	26.666 17.813 63.245 1.00 12.77	В
ATOM	7337 CG LEU 162	26.751 16.570 62.416 1.00 12.77	В
ATOM	7338 CD1 LEU 162	27.327 16.961 61.067 1.00 12.77	В
ATOM	7339 CD2 LEU 162	27.623 15.531 63.129 1.00 12.77	В
ATOM	7340 C LEU 162	24.190 17.961 63.014 1.00 27.66	В
MOTA	7341 O LEU 162	23.868 17.121 63.858 1.00 12.77	В
MOTA	7342 N GLN 163	23.447 18.247 61.956 1.00 25.84	В
ATOM	7343 H GLN 163	23.762 18.925 61.323 1.00 0.00	В
MOTA	7344 CA GLN 163	22.181 17.586 61.706 1.00 25.84	В
MOTA MOTA	7345 CB GLN 163 7346 CG GLN 163	21.382 18.415 60.740 1.00 31.72	В
ATOM	7347 CD GLN 163	21.319 19.832 61.184 1.00 31.72 20.718 20.693 60.146 1.00 31.72	В
ATOM	7347 CD GLN 103	19.526 21.006 60.213 1.00 31.72	B B
ATOM	7349 NE2 GLN 163	21.528 21.085 59.150 1.00 31.72	В
ATOM	7350 HE21 GLN 163		В
ATOM	7351 HE22 GLN 163		В
ATOM	7352 C GLN 163	22.319 16.176 61.178 1.00 25.84	В
ATOM	7353 O GLN 163	23.282 15.817 60.497 1.00 31.72	В
MOTA	7354 N SER 164	21.335 15.377 61.517 1.00 12.95	В
MOTA	7355 H SER 164	20.597 15.725 62.068 1.00 0.00	В
ATOM	7356 CA SER 164	21.306 13.996 61.110 1.00 12.95	В
ATOM	7357 CB SER 164	19.932 13.443 61.374 1.00 22.01	В
ATOM	7358 OG SER 164	19.027 14.210 60.603 1.00 22.01	В
MOTA	7359 HG SER 164	18.151 14.175 61.006 1.00 0.00	В
ATOM	7360 C SER 164	21.567 13.970 59.632 1.00 12.95	В
MOTA	7361 O SER 164	22.270 13.106 59.137 1.00 22.01	В
MOTA	7362 N SER 165	20.996 14.935 58.929 1.00 9.41	В
MOTA MOTA	7363 H SER 165	20.450 15.612 59.372 1.00 0.00	В
ATOM	7364 CA SER 165 7365 CB SER 165	21.174 15.022 57.499 1.00 9.41	В
ATOM	7366 OG SER 165	20.582 16.303 57.018 1.00 23.45 21.578 17.291 57.109 1.00 23.45	В
ATOM	7367 HG SER 165	21.366 17.992 56.484 1.00 0.00	B B
ATOM	7368 C SER 165	22.640 15.022 57.115 1.00 9.41	В
ATOM	7369 O SER 165	22.981 14.837 55.948 1.00 23,45	В
MOTA	7370 N GLY 166	23.498 15.260 58.100 1.00 7.58	В
MOTA	7371 H GLY 166	23.107 15.385 58.976 1.00 0.00	В
ATOM	7372 CA GLY 166	24.915 15.338 57.870 1.00 7.58	В
MOTA	7373 C GLY 166	25.239 16.791 57.582 1.00 7.58	В
ATOM	7374 O GLY 166	26.391 17.185 57.453 1.00 22.16	В
MOTA	7375 N LEU 167	24.217 17.620 57.483 1.00 23.19	В
ATOM	7376 H LEU 167	23.309 17.287 57.593 1.00 0.00	В
MOTA	7377 CA LEU 167	24.480 19.015 57.218 1.00 23.19	В
ATOM ATOM	7378 CB LEU 167 7379 CG LEU 167	23.338 19.610 56.408 1.00 5.72	В
ATOM		23.250 19.194 54.929 1.00 5.72	В
ATOM	7380 CD1 LEU 167 7381 CD2 LEU 167	22.156 20.048 54.277 1.00 5.72	В
ATOM	7382 C LEU 167	24.566 19.390 54.196 1.00 5.72 24.692 19.764 58.532 1.00 23.19	В
ATOM	7383 O LEU 167	24.435 19.237 59.609 1.00 5.72	B B
ATOM	7384 N TYR 168	25.182 20.986 58.424 1.00 25.04	В
MOTA	7385 H TYR 168	25.338 21.346 57.528 1.00 0.00	В
MOTA	7386 CA TYR 168	25.501 21.788 59.590 1.00 25.04	В
MOTA	7387 CB TYR 168	26.905 22.338 59.448 1.00 4.14	В
ATOM	7388 CG TYR 168	27.991 21.424 59.910 1.00 4.14	В
MOTA	7389 CD1 TYR 168	28.149 21.127 61.247 1.00 4.14	В

ATOM 7390 CE1 TYR 168 29,118 20,258 61,638 1 00 4.14 B
20:110 20:200 01:000 1:00 4:14 D
20,000 ,0,000 ,0,000 4,14 D
25,505 10,605 50,005 1,00 4,14 B
ATOM 7394 OH TYR 168 30.882 18.826 61.090 1.00 4.14 B ATOM 7395 HH TYR 168 30.561 17.925 60.954 1.00 0.00 B
B 11.00 0.00
ATOM 7396 C TYR 168 24.555 22.953 59.739 1.00 25.04 B
ATOM 7397 O TYR 168 23.932 23.384 58.767 1.00 4.14 B
ATOM 7398 N SER 169 24.498 23.503 60.944 1.00 2.06 B
ATOM 7399 H SER 169 25.074 23.143 61.662 1.00 0.00 B
ATOM 7400 CA SER 169 23.605 24.620 61.210 1.00 2.06 B
ATOM 7401 CB SER 169 22.278 24.081 61.630 1.00 5.99 B
ATOM 7402 OG SER 169 21.304 24.510 60.766 1.00 5.99 B
ATOM 7403 HG SER 169 20.443 24.402 61.186 1.00 0.00 B
ATOM 7404 C SER 169 24.109 25.457 62.342 1.00 2.06 B
ATOM 7405 O SER 169 24.626 24.940 63.333 1.00 5.99 B
ATOM 7406 N LEU 170 24.012 26.763 62 212 1 00 21 37 R
ATOM 7407 H LEU 170 23.692 27.159 61.385 1.00 0.00 B
ATOM 7408 CA LEU 170 24.394 27.567 63.343 1 00 21 37 B
A I OM 7409 CB LEU 170 25.846 27.970 63 259 1 00 4 18 R
ATOM 7410 CG LEU 170 26.391 29.120 62.423 1.00 4.18 B
AIOM 7411 CD1 LEU 170 25.685 30.463 62.631 1.00 4.18 B
ATOM 7412 CD2 LEU 170 27.893 29.219 62.829 1.00 4.18 B
ATOM 7413 C LEU 170 23.481 28.766 63.567 1.00 21.37 B
ATOM 7414 O LEU 170 22.593 29.078 62.741 1.00 4.18 B
AIOM 7415 N SER 171 23.657 29.397 64 728 1.00 2.33 B
ATOM 7416 H SER 171 24.329 29.058 65.364 1.00 0.00 B
ATOM 7417 CA SER 171 22.875 30.548 65 029 1 00 2 33 P
ATOM 7418 CB SER 171 22.083 30.293 66.282 1.00 6.41 B
ATOM 7419 OG SER 171 20.717 30.307 65 999 1 00 6 41 R
ATOM 7420 HG SER 171 20.289 29.594 66 479 1 nn n nn R
ATOM 7421 C SER 171 23.780 31.717 65.257 1.00 2.33 P
ATOM 7422 O SER 171 24,952 31 547 65 595 1 00 6 41 B
ATOM 7423 N SER 172 23,278 32,910 65,012 1,00 10,38 P
ATOM 7424 H SER 172 22.399 33.012 64.598 1.00 0.00 B
ATOM 7425 CA SER 172 24,069 34,068 65,396 1 00 10 38 R
ATOM 7426 CB SER 172 24,773 34,781 64,253 1,00,16,25 B
ATOM 7427 OG SER 172 25.591 35.785 64.836 1.00.18.25 B
ATOM 7428 MG SER 172 25,933 35,479 65,677 1,00 0,00 P
ATOM 7429 C SER 172 23.054 34.985 66.022 1.00 10.38 R
ATOM 7430 O SER 172 22.011 35.260 65 443 1 00 16 25 R
ATOM 7431 N VAL 173 23.370 35.462 67 210 1 00 13 78 B
ATOM 7432 H VAL 173 24,239 35,261 67 599 1 00 0 00 B
ATOM 7433 CA VAL 173 22,437 36,290 67 951 1 00 13 78 B
A TOM 7434 CB VAL 173 21.897 35.428 69.101 1.00.20.05 B
ATOM 7435 CG1 VAL 173 21.905 36.208 70.367 1.00 20 05 B
7436 CG2 VAL 1/3 20.510 34.863 68.752 1.00 20 05 P
71 ON 7437 C VAL 173 23.087 37 562 68 406 1 00 12 79 B
ATOM 7438 O VAL 173 24.310 37 637 68 655 1 00 20 05 B
7439 N VAL 174 22.288 38.581 68.768 1.00 9.76 B
7440 H VAL 174 21.324 38.527 68.569 1.00 0.00 B
7441 CA VAL 1/4 22.841 39.805 69.351 1.00 9.76 B
7442 CB VAL 1/4 23.395 40.782 68.289 1.00 9.94 R
7443 CGT VAL 1/4 22.224 41.452 67.532 1.00 9.94 B
7444 CG2 VAL 1/4 24.259 41.832 68,953 1.00 9.94 B
ATOM 7445 C VAL 174 21.756 40.515 70.124 1.00 9.76 B

ATOM	7446 O VAL 174	20.571 40.363 69.839 1.00 9.94	В
ATOM	7447 N THR 175	22.177 41.305 71.101 1.00 24.29	В
ATOM	7448 H THR 175	23.134 41.385 71.266 1.00 0.00	В
ATOM	7449 CA THR 175	21,251 42,055 71,931 1,00 24,29	В
			В
ATOM	7450 CB THR 175		_
ATOM	7451 OG1 THR 175		В
ATOM	7452 HG1 THR 175	23.211 41.859 74.378 1.00 0.00	В
ATOM	7453 CG2 THR 175	20.417 40.759 73.963 1.00 7.84	В
ATOM	7454 C THR 175	21.537 43.526 71.667 1.00 24.29	В
ATOM	7455 O THR 175	22.690 43.911 71.499 1.00 7.84	В
ATOM	7456 N VAL 176	20.482 44.332 71.664 1.00 9.64	В
ATOM	7457 H VAL 176	19.606 43.934 71.849 1.00 0.00	В
MOTA	7458 CA VAL 176	20.538 45.763 71.404 1.00 9.64	В
MOTA	7459 CB VAL 176	20.302 46.032 69.876 1.00 3.24	В.
ATOM	7460 CG1 VAL 176	21.009 45.040 69.038 1.00 3.24	В
MOTA	7461 CG2 VAL 176	18.848 45.907 69.557 1.00 3.24	В
ATOM	7462 C VAL 176	19.380 46.447 72.191 1.00 9.64	В
MOTA	7463 O VAL 176	18.524 45.795 72.742 1.00 3.24	В
ATOM	7464 N PRO 177	19.374 47.785 72.270 1.00 2.00	В
ATOM	7465 CD PRO 177	20.427 48.676 71.742 1.00 2.00	В
ATOM	7466 CA PRO 177	18.327 48.547 72.955 1.00 2.00	В
ATOM	7467 CB PRO 177	18.851 49.975 72.961 1.00 2.00	В
ATOM	7468 CG PRO 177	20.222 49.906 72.540 1.00 2.00	В
ATOM	7469 C PRO 177	17.062 48.500 72.138 1.00 2.00	В
ATOM	7470 O PRO 177	17.064 48.711 70.937 1.00 2.00	В
ATOM	7471 N SER 178	15.943 48.277 72.768 1.00 7.55	В
MOTA	7472 H SER 178	15.955 48.128 73.732 1.00 0.00	В
ATOM	7473 CA SER 178	14.737 48.288 71.983 1.00 7.55	В
ATOM	7474 CB SER 178	13.675 47.671 72.806 1.00 3.98	В
MOTA	7475 OG SER 178	14.184 47.748 74.086 1.00 3.98	В
ATOM	7476 HG SER 178	14.481 48.662 74.250 1.00 0.00	В
MOTA MOTA	7477 C SER 178	14.347 49.739 71.598 1.00 7.55	В
ATOM	7478 O SER 178	13.600 49.939 70.669 1.00 3.98	В
ATOM	7479 N SER 179 7480 H SER 179	14.846 50.732 72.314 1.00 3.12	В
ATOM		15.449 50.521 73.074 1.00 0.00	В
ATOM	7482 CB SER 179	14.525 52.088 72.009 1.00 3.12	В
ATOM	7483 OG SER 179	15.308 53.076 72.879 1.00 32.08	В
ATOM	7484 HG SER 179	16.516 52.550 73.390 1.00 32.08 16.604 51.635 73.136 1.00 0.00	В
ATOM	7485 C SER 179	14.802 52.369 70.561 1.00 3.12	В
	7486 O SER 179	14.031 53.069 69.913 1.00 32.08	В
ATOM	7487 N SER 180	15.875 51.821 70.015 1.00 2.26	В
ATOM	7488 H SER 180	16.463 51.252 70.541 1.00 0.00	В
ATOM	7489 CA SER 180	16.163 52.086 68.630 1.00 2.26	8
MOTA	7490 CB SER 180	17.647 52.442 68.456 1.00 25.98	В
ATOM	7491 OG SER 180	18.455 51.859 69.463 1.00 25.98	B B
ATOM	7492 HG SER 180	19.099 52.508 69.761 1.00 0.00	
ATOM	7493 C SER 180	15.784 50.958 67.654 1.00 2.26	B B
ATOM	7494 O SER 180	16.212 50.941 66.505 1.00 25.98	В
ATOM	7495 N LEU 181	15.007 49.995 68.080 1.00 9.99	В
ATOM	7496 H LEU 181	14.703 49.972 69.009 1.00 0.00	В
ATOM	7497 CA LEU 181	14.619 48.986 67.121 1.00 9.99	В
	7498 CB LEU 181	13.582 48.071 67.692 1.00 13.82	В
ATOM	7499 CG LEU 181	14.263 47.019 68.522 1.00 13.82	В
ATOM	7500 CD1 LEU 181	13.252 46.376 69.424 1.00 13.82	В
MOTA	7501 CD2 LEU 181	14.898 46.046 67.615 1.00 13.82	В

ATOM ATOM	7503 O LEU 181	14.001 49.837 66.042 1.00 9.99 B 13.472 50.919 66.340 1.00 13.82 B
ATOM		14.068 49.400 64.791 1.00 41.01 B
ATOM		14.469 48.521 64.599 1.00 0.00 B
ATOM ATOM		13.542 50.260 63.733 1.00 41.01 B 14.125 51.684 63.849 1.00 41.01 B
ATOM		14.125 51.684 63.849 1.00 41.01 B 13.473 52.578 64.328 1.00 10.76 B
ATOM		15.383 51.862 63.438 1.00 27.85 B
ATOM	7510 H THR 183	15.864 51.078 63.092 1.00 0.00 B
ATOM	7511 CA THR 183	16.112 53.134 63.467 1.00 27.85 B
ATOM ATOM		15.861 53.854 64.778 1.00 15.15 B
ATOM	7513 OG1 THR 183 7514 HG1 THR 183	15.320 55.136 64.472 1.00 15.15 B 14.381 55.114 64.302 1.00 0.00 B
ATOM	7514 NG1 THR 183	14.381 55.114 64.302 1.00 0.00 B 17.127 54.021 65.615 1.00 15.15 B
ATOM	7516 C THR 183	17.580 52.759 63.301 1.00 27.85 B
ATOM	7517 O THR 183	18.350 53.379 62.611 1.00 15.15 B
ATOM	7518 N GLN 184	17.965 51.699 63.952 1.00 9.22 B
MOTA MOTA	7519 H GLN 184	17.340 51.218 64.531 1.00 0.00 B
ATOM	7520 CA GLN 184 7521 CB GLN 184	19.298 51.244 63.810 1.00 9.22 B 19.813 50.807 65.164 1.00 14.31 B
ATOM	7521 CB GLN 184	19.813 50.807 65.164 1.00 14.31 B 20.094 52.000 66.025 1.00 14.31 B
ATOM	7523 CD GLN 184	20.722 53.141 65.213 1.00 14.31 B
ATOM	7524 OE1 GLN 184	21.953 53.251 65.089 1.00 14.31 B
ATOM	7525 NE2 GLN 184	19.876 53.979 64.652 1.00 14.31 B
MOTA MOTA	7526 HE21 GLN 184	19.350 54.560 65.243 1.00 0.00 B
ATOM	7527 HE22 GLN 184 7528 C GLN 184	19.806 53.982 63.675 1.00 0.00 B 19.064 50.086 62.883 1.00 9.22 B
ATOM	7529 O GLN 184	19.064 50.086 62.883 1.00 9.22 B 17.951 49.579 62.822 1.00 14.31 B
ATOM	7530 N THR 185	20.067 49.695 62.109 1.00 5.31 B
ATOM	7531 H THR 185	20.932 50.134 62.117 1.00 0.00 B
MOTA	7532 CA THR 185	19.818 48.576 61.243 1.00 5.31 B
ATOM ATOM	7533 CB THR 185 7534 OG1 THR 185	19.548 49.019 59.755 1.00 21.65 B
ATOM	7535 HG1 THR 185	20.639 49.771 59.259 1.00 21.65 B 20.299 50.507 58.751 1.00 0.00 B
ATOM	7536 CG2 THR 185	18.263 49.881 59.667 1.00 21.65 B
MOTA	7537 C THR 185	20.854 47.462 61.363 1.00 5.31 B
ATOM	7538 O THR 185	22.042 47.661 61.386 1.00 21.65 B
ATOM ATOM	7539 N TYR 186	20.339 46.265 61.502 1.00 16.16 B
ATOM	7540 H TYR 186 7541 CA TYR 186	19.361 46.149 61.469 1.00 0.00 B
ATOM	7542 CB TYR 186	21.179 45.125 61.694 1.00 16.16 B 20.797 44.493 63.021 1.00 2.00 B
ATOM	7543 CG TYR 186	20.749 45.496 64.158 1.00 2.00 B
ATOM	7544 CD1 TYR 186	21.873 45.774 64.885 1.00 2.00 B
ATOM	7545 CE1 TYR 186	21.829 46.614 65.950 1.00 2.00 B
ATOM ATOM	7546 CD2 TYR 186 7547 CE2 TYR 186	19.551 46.123 64.530 1.00 2.00 B
ATOM	7547 CE2 TYR 186 7548 CZ TYR 186	19.487 46.982 65.608 1.00 2.00 B 20.640 47.224 66.341 1.00 2.00 B
ATOM	7549 OH TYR 186	20.640 47.224 66.341 1.00 2.00 B 20.613 47.957 67.540 1.00 2.00 B
MOTA	7550 HH TYR 186	19.694 48.045 67.817 1.00 0.00 B
MOTA	7551 C TYR 186	21.103 44.130 60.527 1.00 16.16 B
ATOM ATOM	7552 O TYR 186	20.048 43.631 60.124 1.00 2.00 B
ATOM	7553 N ILE 187 2 7554 H ILE 187 2	22.271 43.891 59.978 1.00 4.04 B
	_	23.058 44.348 60.350 1.00 0.00 B 22.465 43.015 58.874 1.00 4.04 B
MOTA	7556 CB ILE 187	23.122 43.770 57.706 1.00 14.06 B
ATOM	7557 CG2 ILE 187	23.385 42.793 56.551 1.00 14.06 B
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ATOM ATOM	7558 CG1 ILE 187 7559 CD1 ILE 187	22.322 45.039 57.379 1.00 14.06 21.948 45.217 55.888 1.00 14.06	B B
ATOM	7560 C ILE 187	23.492 42.005 59.342 1.00 4.04	В
MOTA MOTA	7561 O ILE 187 7562 N CYS 188	24.519 42.393 59.865 1.00 14.06 23.217 40.720 59.164 1.00 16.35	В
ATOM	7562 N CYS 188 7563 H CYS 188	23.217 40.720 59.104 1.00 10.35	ВВ
ATOM	7564 CA CYS 188	24.207 39.726 59.507 1.00 16.35	В
ATOM	7565 C CYS 188	24.937 39.382 58.210 1.00 16.35	В
ATOM	7566 O CYS 188	24.334 39.347 57.134 1.00 4.13	В
ATOM	7567 CB CYS 188	23.574 38.475 60.100 1.00 4.13	В
ATOM	7568 SG CYS 188	22.433 37.677 58.997 1.00 4.13	В
MOTA	7569 N ASN 189	26.249 39.166 58.339 1.00 2.00	В
ATOM	7570 H ASN 189	26.640 39.214 59.201 1.00 0.00	В
ATOM	7571 CA ASN 189	27.126 38.822 57.239 1.00 2.00	В
MOTA MOTA	7572 CB ASN 189	28.276 39.762 57.290 1.00 9.78	В
ATOM	7573 CG ASN 189 7574 OD1 ASN 189	27.811 41.165 57.237 1.00 9.78 28.211 42.006 58.048 1.00 9.78	В
ATOM	7574 ODT ASN 189		B B
ATOM	7576 HD21 ASN 189		
MOTA	7577 HD22 ASN 189		_
ATOM	7578 C ASN 189	27.578 37.370 57.371 1.00 2.00	В
MOTA	7579 O ASN 189	28.590 37.028 58.025 1.00 9.78	В
ATOM	7580 N VAL 190	26.774 36.530 56.740 1.00 2.00	В
ATOM	7581 H VAL 190	26.000 36.911 56.267 1.00 0.00	В
MOTA	7582 CA VAL 190	26.971 35.118 56.720 1.00 2.00	В
MOTA MOTA	7583 CB VAL 190 7584 CG1 VAL 190	25.659 34.444 56.332 1.00 20.25	В
ATOM	7584 CG1 VAL 190 7585 CG2 VAL 190	25.797 32.959 56.332 1.00 20.25 24.571 34.910 57.274 1.00 20.25	B B
ATOM	7586 C VAL 190	27.974 34.835 55.678 1.00 2.00	В
ATOM	7587 O VAL 190	27.813 35.251 54.561 1.00 20.25	В
MOTA	7588 N ASN 191	29.034 34.137 56.008 1.00 12.89	В
ATOM	7589 H ASN 191	29.183 33.830 56.919 1.00 0.00	В
ATOM	7590 CA ASN 191	30.002 33.823 54.984 1.00 12.89	В
MOTA MOTA	7591 CB ASN 191	31.246 34.668 55.174 1.00 26.66	В
ATOM	7592 CG ASN 191 7593 OD1 ASN 191	32.204 34.557 54.006 1.00 26.66 32.916 35.501 53.680 1.00 26.66	В
ATOM	7594 ND2 ASN 191	32.231 33.392 53.363 1.00 26.66	8 8
ATOM	7595 HD21 ASN 191		В
MOTA	7596 HD22 ASN 191		В
ATOM	7597 C ASN 191	30.328 32.332 55.019 1.00 12.89	В
ATOM	7598 O ASN 191	30.584 31.773 56.071 1.00 26.66	B _,
ATOM	7599 N HIS 192	30.287 31.682 53.854 1.00 11.95	B
ATOM ATOM	7600 H HIS 192	30.038 32.163 53.050 1.00 0.00	B_
ATOM	7601 CA HIS 192 7602 CB HIS 192	30.614 30.253 53.753 1.00 11.95	В
ATOM	7602 CB HIS 192 7603 CG HIS 192	29.340 29.446 53.570 1.00 12.75 29.570 27.978 53.517 1.00 12.75	В
ATOM	7604 CD2 HIS 192	29.150 27.034 52.633 1.00 12.75	B B
ATOM	7605 ND1 HIS 192	30.435 27.342 54.380 1.00 12.75	В
MOTA	7606 HD1 HIS 192	30.911 27.754 55.135 1.00 0.00	В
ATOM	7607 CE1 HIS 192	30.541 26.071 54.027 1.00 12.75	В
ATOM	7608 NE2 HIS 192	29.772 25.861 52.969 1.00 12.75	В
ATOM	7609 HE2 HIS 192	29.665 25.011 52.504 1.00 0.00	В
MOTA MOTA	7610 C HIS 192 7611 O HIS 192	31.551 30.043 52.571 1.00 11.95	В
ATOM	7612 N LYS 193	31.089 29.689 51.502 1.00 12.75 32.855 30.253 52.753 1.00 8.67	В
ATOM	7613 H LYS 193	33.181 30.477 53.647 1.00 0.00	B B
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ATOM	7614 CA LYS 193	33.815 30.129 51.635 1.00 8.67	В
ATOM	7615 CB LYS 193	35.254 30.217 52.137 1.00 25.19	В
			В
ATOM	7616 CG LYS 193	35.967 31.546 51.858 1.00 25.19	
ATOM	7617 CD LYS 193	35.161 32.785 52.350 1.00 25.19	В
ATOM	7618 CE LYS 193	36.032 33.943 52.926 1.00 25.19	В
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ATOM	7619 NZ LYS 193	37.423 33.533 53.336 1.00 25.19	В
ATOM	7620 HZ1 LYS 193	37.988 33.296 52.499 1.00 0.00	В
		37.363 32.692 53.952 1,00 0.00	В
MOTA			
ATOM	7622 HZ3 LYS 193	37.869 34.310 53.856 1.00 0.00	В
ATOM	7623 C LYS 193	33.704 28.873 50.724 1.00 8.67	В
ATOM	7624 O LYS 193	33.697 28.993 49,492 1,00 25.19	В
ATOM	7625 N PRO 194	33.582 27.665 51.316 1.00 15.73	В
ATOM	7626 CD PRO 194	33.506 27.405 52.762 1.00 22.43	В
ATOM	7627 CA PRO 194	33.492 26.422 50.541 1.00 15.73	В
ATOM	7628 CB PRO 194	33.318 25.340 51.605 1.00 22.43	В
ATOM	7629 CG PRO 194	33.921 25.976 52.846 1.00 22.43	В
ATOM	7630 C PRO 194	32.442 26.317 49.461 1.00 15.73	В
ATOM	7631 O PRO 194	32.508 25.419 48.628 1.00 22.43	В
ATOM	7632 N SER 195	31.467 27.212 49.470 1.00 2.00	В
ATOM	7633 H SER 195	31.453 27.918 50.155 1.00 0.00	В
ATOM	7634 CA SER 195	30,403 27,169 48,479 1.00 2.00	В
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MOTA	7635 CB SER 195	29.081 26.670 49.129 1.00 2.00	В
ATOM	7636 OG SER 195	28.457 27.576 50.064 1.00 2.00	В
ATOM	7637 HG SER 195	28.449 28.456 49.689 1.00 0.00	В
ATOM	7638 C SER 195	30,272 28.592 47.991 1.00 2.00	В
ATOM	7639 O SER 195	29.260 28.985 47.438 1.00 2.00	В
ATOM	7640 N ASN 196	31.336 29.352 48.216 1.00 24.65	В
MOTA	7641 H ASN 196	32,113 28.942 48.642 1.00 0.00	В
ATOM	7642 CA ASN 196	31.392 30.759 47.854 1.00 24.65	В
ATOM			
		31.557 30.985 46.330 1.00 14.27	В
ATOM	7644 CG ASN 196	32.394 29.915 45.645 1.00 14.27	В
ATOM	7645 OD1 ASN 196	33.613 29.776 45.894 1.00 14.27	В
ATOM	7646 ND2 ASN 196	31.749 29.163 44.755 1.00 14.27	В
ATOM	7647 HD21 ASN 196	32.069 29.179 43.819 1.00 0.00	B
ATOM	7648 HD22 ASN 196	30.986 28.627 45.050 1.00 0.00	В
ATOM	7649 C ASN 196	30.101 31.425 48.326 1.00 24.65	В
ATOM	7650 O ASN 196	29.514 32,230 47.593 1.00 14.27	В
ATOM	7651 N THR 197	29.644 31.097 49.536 1.00 26.74	В
ATOM			
	7652 H THR 197	30.118 30.449 50.086 1.00 0.00	В
ATOM	7653 CA THR 197	28.422 31.726 50.015 1.00 26.74	В
ATOM	7654 CB THR 197	27.538 30.752 50.857 1.00 17.67	В
ATOM	7655 OG1 THR 197	26.626 30.053 49.992 1.00 17.67	В
ATOM			
		26.630 29.118 50.206 1.00 0.00	В
ATOM	7657 CG2 THR 197	26.690 31.532 51.897 1.00 17.67	٠B
ATOM	7658 C THR 197	28.646 33.035 50.793 1.00 26.74	В
ATOM	7659 O THR 197	29.342 33.094 51.808 1.00 17.67	В
ATOM	7660 N LYS 198		
		28.056 34.090 50.256 1.00 6.96	В
ATOM	7661 H LYS 198	27.562 33.972 49.414 1.00 0.00	В
MOTA	7662 CA LYS 198	28.117 35.399 50.849 1.00 6.96	В
ATOM	7663 CB LYS 198	28.921 36.353 49.993 1.00 29.83	В
ATOM	7664 CG LYS 198		
ATOM			В
		30.556 38.157 50.439 1.00 29.83	В
ATOM	7666 CE LYS 198	29.972 38.734 49.139 1.00 29.83	В
ATOM	7667 NZ LYS 198	30.596 38.175 47.850 1.00 29.83	В
ATOM	7668 HZ1 LYS 198	29.820 37.867 47.219 1.00 0.00	В
ATOM	7669 HZ2 LYS 198		
A I OIVI	1000 1122 213 190	31.204 37.362 48.067 1.00 0.00	В

ATOM	7670 HZ3 LYS 198	31.145 38.916 47.371 1.00 0.00	В
ATOM	7671 C LYS 198	26,663 35.824 50,837 1.00 6.96	В
ATOM	7672 O LYS 198	25.982 35.719 49.829 1.00 29.83	В
ATOM	7673 N VAL 199	26,156 36.232 51.978 1.00 2.00	В
ATOM	7674 H VAL 199	26.699 36.241 52.800 1.00 0.00	В
ATOM	7675 CA VAL 199	24.803 36.647 52.002 1.00 2.00	В
ATOM	7676 CB VAL 199	23.901 35.415 52.204 1.00 10.12	В
ATOM	7677 CG1 VAL 199	22.663 35.730 53.014 1.00 10.12	В
ATOM	7678 CG2 VAL 199	23.497 34.917 50.829 1.00 10.12	В
ATOM	7679 C VAL 199	24.604 37.696 53.061 1.00 2.00	В
ATOM	7680 O VAL 199	25.341 37.756 54.048 1.00 10.12	В
ATOM	7681 N ASP 200	23.653 38.576 52.810 1.00 20.39	В
ATOM	7682 H ASP 200	23.182 38.545 51.964 1.00 0.00	В
ATOM	7683 CA ASP 200	23.315 39.587 53.793 1.00 20.39	В
ATOM	7684 CB ASP 200	23.724 40.961 53.326 1.00 33.41	В
ATOM	7685 CG ASP 200	25.194 41.058 53.211 1.00 33.41	В
ATOM	7686 OD1 ASP 200	25.860 40.264 53.892 1.00 33.41	В
ATOM	7687 OD2 ASP 200	25.709 41.883 52.444 1.00 33.41	_ B
MOTA	7688 C ASP 200	21.830 39.513 54.060 1.00 20.39	В
ATOM	7689 O ASP 200	20.990 39.440 53.140 1.00 33.41	В
MOTA MOTA	7690 N LYS 201 7691 H LYS 201	21.516 39.415 55.335 1.00 5.32	В
ATOM	7691 H LYS 201 7692 CA LYS 201	22.218 39.354 56.017 1.00 0.00 20.138 39.385 55.708 1.00 5.32	В
ATOM	7693 CB LYS 201	19.757 38.060 56.363 1.00 24.51	B B
ATOM	7694 CG LYS 201	18.261 37.816 56.341 1.00 24.51	В
ATOM	7695 CD LYS 201	17.703 37.724 54.908 1.00 24.51	В
ATOM	7696 CE LYS 201	16.808 38.927 54.583 1.00 24.51	В
MOTA	7697 NZ LYS 201	16.712 39.312 53.102 1.00 24.51	В
ATOM	7698 HZ1 LYS 201	15.771 39.755 52.957 1.00 0.00	В
ATOM	7699 HZ2 LYS 201	16.793 38.471 52.504 1.00 0.00	В
ATOM	7700 HZ3 LYS 201	17.443 40.009 52.878 1.00 0.00	В
ATOM	7701 C LYS 201	19.979 40.536 56.658 1.00 5.32	В
ATOM	7702 O LYS 201	20.772 40.737 57.575 1.00 24.51	В
MOTA MOTA	7703 N LYS 202 7704 H LYS 202	18.981 41.341 56.360 1.00 16.49	В
ATOM	7704 H L13 202 7705 CA LYS 202	18.450 41.150 55.563 1.00 0.00 18.681 42.480 57.190 1.00 16.49	В
ATOM	7706 CB LYS 202	18.234 43.678 56.332 1.00 41.56	B B
ATOM	7707 CG LYS 202	16.904 44.300 56.716 1.00 41.56	В
ATOM	7708 CD LYS 202	17.064 45.648 57.386 1.00 41.56	В
ATOM	7709 CE LYS 202	16.012 46.641 56.873 1.00 41.56	В
MOTA	7710 NZ LYS 202	16.538 48.028 56.543 1.00 41.56	В
ATOM	7711 HZ1 LYS 202	17.547 47.989 56.293 1.00 0.00	В
ATOM	7712 HZ2 LYS 202	16.436 48.610 57.409 1.00 0.00	В
MOTA	7713 HZ3 LYS 202	15.985 48.486 55.792 1.00 0.00	В
MOTA	7714 C LYS 202	17.557 41.909 57.983 1.00 16.49	В
MOTA MOTA	7715 O LYS 202 7716 N VAL 203	16.670 41.274 57.418 1.00 41.56	В
ATOM	7716 N VAL 203 7717 H VAL 203	17.601 42.085 59.294 1.00 3.06	В
ATOM	7718 CA VAL 203	18.354 42.565 59.682 1.00 0.00 16.546 41.560 60.141 1.00 3.06	В
ATOM	7719 CB VAL 203	17.176 40.502 61.134 1.00 27.30	B B
ATOM	7720 CG1 VAL 203	18.640 40.441 60.934 1.00 27.30	В
MOTA	7721 CG2 VAL 203	16.838 40.792 62.589 1.00 27.30	В
ATOM	7722 C VAL 203	15.840 42.710 60.859 1.00 3.06	В
ATOM	7723 O VAL 203	16.509 43.514 61.501 1.00 27.30	В
ATOM	7724 N GLU 204	14.522 42.833 60.735 1.00 27.40	В
ATOM	7725 H GLU 204	14.026 42.210 60.168 1.00 0.00	В

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ATOM	7726 CA GLU 204	13.818 43.925 61.449 1.00 27.40	В
ATOM	7727 CB GLU 204	13.674 45.162 60.558 1.00 30.20	В
	7728 CG GLU 204	12.637 45.043 59.446 1.00 30.20	В
	7729 CD GLU 204	13.287 44.633 58.145 1.00 30.20	В
	7730 OE1 GLU 204	14.424 44.093 58.229 1.00 30.20	В
	7731 OE2 GLU 204	12.677 44.840 57.066 1.00 30.20	В
	7732 C GLU 204	12.447 43.563 62.032 1.00 27.40	В
ATOM	7733 O GLU 204	11.980 42.491 61.584 1.00 30.20	В
ATOM	7734 OT GLU 204	11.876 44.320 62.888 1.00 30.20	В
END			

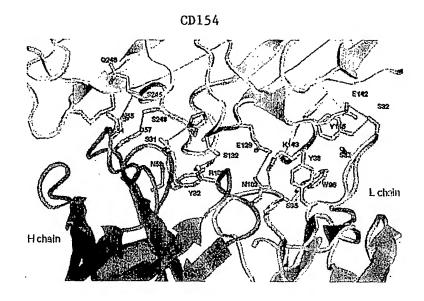
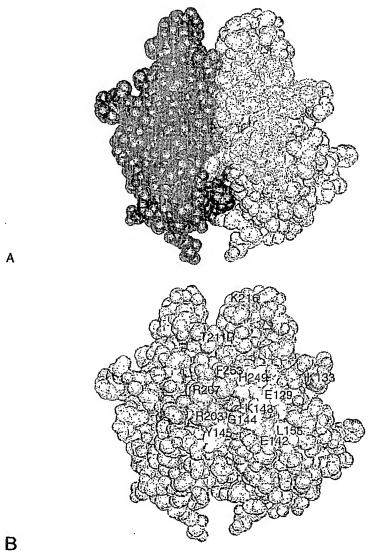


Figure 10

Figure 11



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